

Trade name: **SIMONA® HDPE natural**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMONA® HDPE natural**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.963
Tensile Strength at yield, psi , D-638	4,500
Tensile Modulus, psi , D-638	230,000
Izod Impact (notched), ft.lbs./in. , D-256	2.4
Shore Hardness, (1 s), ISO 868	71
Coefficient of Thermal Expansion, in./in./°C , D-696	1.8 x 10 <sup>-4</sup>
Heat Deflection Temperature at 66 psi, °F	175
Heat Deflection Temperature at 264 psi, °F	118
Crystalline melting range, °F , DSC (10 °C/min)	258.8° F - 266° F
Temperature Range, °F	-58 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® HDPE black**

Revision: 07.01.2016

Date of printing: 04.02.2016

**SIMONA® HDPE black**

Data sheet update	07.01.2016
Density, g/cc , D-792	0.970
Tensile Strength at yield, psi , D-638	4,500
Tensile Modulus, psi , D-638	240,000
Izod Impact (notched), ft.lbs./in. , D-256	2.4
Coefficient of Thermal Expansion, in./in./°C , D-696	1.8 x 10 <sup>-4</sup>
Heat Deflection Temperature at 66 psi, °F	175
Heat Deflection Temperature at 264 psi, °F	118
Crystalline melting range, °F , DSC (10 °C/min)	258.8° F - 266° F
Temperature Range, °F	-58 to +176

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® HDPE Bathroom Partitions**  
Date of printing: 04.02.2016

Revision: 01.10.2014

**SIMONA® HDPE Bathroom Partitions**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.960
Tensile Strength at yield, psi , D-638	4,350
Tensile Modulus, psi , D-638	240,000
Shore Hardness, (1 s), ISO 868	69
Coefficient of Thermal Expansion, in./in./°C , D-696	1.8 x 10 <sup>-4</sup>
Heat Deflection Temperature at 66 psi, °F	172
Crystalline melting range, °F , DSC (10 °C/min)	258.8° F - 266° F
Temperature Range, °F	-58 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® Pipe Grade**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMONA® Pipe Grade**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.960
Tensile Strength at yield, psi , D-638	3,500
Tensile Modulus, psi , D-638	175,000
Izod Impact (notched), ft.lbs./in. , D-256	4.7
Shore Hardness, (1 s), ISO 868	70
Coefficient of Thermal Expansion, in./in./°C , D-696	1.8 x 10 <sup>-4</sup>
Heat Deflection Temperature at 66 psi, °F	175
Heat Deflection Temperature at 264 psi, °F	118
Crystalline melting range, °F , DSC (10 °C/min)	258.8° F - 266° F
Temperature Range, °F	-58 to +176

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PE-HWU**  
 Date of printing: 04.02.2016

Revision: 02.11.2012

**SIMONA® PE-HWU**

Data sheet update	02.11.2012
Density, g/cc , D-792	0.955
Tensile Strength at yield, psi , D-638	3,200
Tensile Modulus, psi , D-638	130,000
Izod Impact (notched), ft.lbs./in. , D-256	5.0
Coefficient of Thermal Expansion, in./in./°C , D-696	1.8 x 10 <sup>-4</sup>
Heat Deflection Temperature at 66 psi, °F	172
Crystalline melting range, °F , DSC (10 °C/min)	258.8° F - 266° F
Temperature Range, °F	-58 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PE-HWST**

Revision: 02.11.2012

Date of printing: 04.02.2016

**SIMONA® PE-HWST**

Data sheet update	02.11.2012
Density, g/cc , D-792	0.947
Tensile Strength at yield, psi , D-638	3,200
Tensile Modulus, psi , D-638	130,000
Izod Impact (notched), ft.lbs./in. , D-256	3.0
Coefficient of Thermal Expansion, in./in./°C , D-696	1.8 x 10 <sup>-4</sup>
Heat Deflection Temperature at 66 psi, °F	172
Crystalline melting range, °F , DSC (10 °C/min)	258.8° F - 266° F
Temperature Range, °F	-58 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PE 100**

Revision: 02.11.2012

Date of printing: 04.02.2016

**SIMONA® PE 100**

Data sheet update	02.11.2012
Density, g/cc , D-792	0.960
Tensile Strength at yield, psi , D-638	3,300
Tensile Modulus, psi , D-638	160,000
Izod Impact (notched), ft.lbs./in. , D-256	9.0
Coefficient of Thermal Expansion, in./in./°C , D-696	1.8 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	258.8° F - 266° F
Temperature Range, °F	-58 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PP-Homopolymer natural**  
Date of printing: 04.02.2016

Revision: 01.10.2014

**SIMONA® PP-Homopolymer natural**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.905
Tensile Strength at yield, psi , D-638	4,700
Tensile Modulus, psi , D-638	210,000
Izod Impact (notched), ft.lbs./in. , D-256	0.8
Shore Hardness, (1 s), ISO 868	78
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	320° F - 329° F
Temperature Range, °F	32 to +212
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).



Trade name: **SIMONA® PP-Homopolymer eurogrey**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMONA® PP-Homopolymer eurogrey**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.920
Tensile Strength at yield, psi , D-638	5,000
Tensile Modulus, psi , D-638	220,000
Izod Impact (notched), ft.lbs./in. , D-256	0.8
Shore Hardness, (1 s), ISO 868	76
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Heat Deflection Temperature at 66 psi, °F	210
Heat Deflection Temperature at 264 psi, °F	135
Crystalline melting range, °F , DSC (10 °C/min)	320° F - 329° F
Temperature Range, °F	32 to +212
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PP-Homopolymer white**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMONA® PP-Homopolymer white**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.920
Tensile Strength at yield, psi , D-638	5,000
Tensile Modulus, psi , D-638	220,000
Izod Impact (notched), ft.lbs./in. , D-256	0.8
Shore Hardness, (1 s), ISO 868	77
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Heat Deflection Temperature at 66 psi, °F	210
Heat Deflection Temperature at 264 psi, °F	135
Crystalline melting range, °F , DSC (10 °C/min)	320° F - 329° F
Temperature Range, °F	32 to +212
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PP-Homopolymer black**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMONA® PP-Homopolymer black**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.920
Tensile Strength at yield, psi , D-638	5,000
Tensile Modulus, psi , D-638	220,000
Izod Impact (notched), ft.lbs./in. , D-256	0.8
Shore Hardness, (1 s), ISO 868	78
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Heat Deflection Temperature at 66 psi, °F	210
Heat Deflection Temperature at 264 psi, °F	135
Crystalline melting range, °F , DSC (10 °C/min)	320° F - 329° F
Temperature Range, °F	32 to +212
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PP-DWU AlphaPlus® Homopolymer**

Revision: 02.11.2012

Date of printing: 04.02.2016

**SIMONA® PP-DWU AlphaPlus® Homopolymer**

Data sheet update	02.11.2012
Density, g/cc , D-792	0.915
Tensile Strength at yield, psi , D-638	4,800
Tensile Modulus, psi , D-638	240,000
Izod Impact (notched), ft.lbs./in. , D-256	1.2
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	320° F - 329° F
Temperature Range, °F	32 to +212
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PP-DWU-SK AlphaPlus® Homopolymer polyester backed**

Revision: 02.11.2012

Date of printing: 04.02.2016

**SIMONA® PP-DWU-SK AlphaPlus® Homopolymer polyester backed**

Data sheet update	02.11.2012
Density, g/cc , D-792	0.915
Tensile Strength at yield, psi , D-638	4,800
Tensile Modulus, psi , D-638	240,000
Izod Impact (notched), ft.lbs./in. , D-256	1.2
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	320° F - 329° F
Temperature Range, °F	32 to +212
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PP-Copolymer natural**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMONA® PP-Copolymer natural**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.910
Tensile Strength at yield, psi , D-638	3,400
Tensile Modulus, psi , D-638	195,000
Izod Impact (notched), ft.lbs./in. , D-256	14
Shore Hardness, (1 s), ISO 868	74
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	320° F - 327.2° F
Temperature Range, °F	-4 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PP-Copolymer eurogrey**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMONA® PP-Copolymer eurogrey**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.915
Tensile Strength at yield, psi , D-638	3,500
Tensile Modulus, psi , D-638	195,000
Izod Impact (notched), ft.lbs./in. , D-256	14
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	320° F - 327.2° F
Temperature Range, °F	-4 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PP-Copolymer UV-stabilized**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMONA® PP-Copolymer UV-stabilized**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.915
Tensile Strength at yield, psi , D-638	3,400
Tensile Modulus, psi , D-638	195,000
Izod Impact (notched), ft.lbs./in. , D-256	14
Shore Hardness, (1 s), ISO 868	74
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	320° F - 327.2° F
Temperature Range, °F	-4 to +176

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).



Trade name: **SIMONA® PP-C-PK Copolymer fabric-backed**

Revision: 02.11.2012

Date of printing: 04.02.2016

**SIMONA® PP-C-PK Copolymer fabric-backed**

Data sheet update	02.11.2012
Density, g/cc , D-792	0.910
Tensile Strength at yield, psi , D-638	3,700
Tensile Modulus, psi , D-638	170,000
Izod Impact (notched), ft.lbs./in. , D-256	14
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	320° F - 327.2° F
Temperature Range, °F	-4 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PP Flame retardant**  
Date of printing: 04.02.2016

Revision: 01.10.2014

**SIMONA® PP Flame retardant**

Data sheet update	01.10.2014
Density, g/cc , D-792	1.020
Tensile Strength at yield, psi , D-638	3,050
Tensile Modulus, psi , D-638	174,000
Izod Impact (notched), ft.lbs./in. , D-256	7.0
Shore Hardness, (1 s), ISO 868	75
Coefficient of Thermal Expansion, in./in./°C , D-696	1.2 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	320° F - 334.4° F
Temperature Range, °F	32 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PVC Type I**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMONA® PVC Type I**

Data sheet update	01.10.2014
Classification	Class 12564
Classification Standard	ASTM D1784-11
Density, g/cc , D-792	1.410
Tensile Strength at yield, psi , D-638	9,000
Tensile Modulus, psi , D-638	486,000
Izod Impact (notched), ft.lbs./in. , D-256	0.8
Shore Hardness, (1 s), ISO 868	84
Coefficient of Thermal Expansion, in./in./°C , D-696	0.8 x 10 <sup>-4</sup>
Heat Deflection Temperature at 264 psi, °F	154
Crystalline melting range, °F , DSC (10 °C/min)	not applicable
Temperature Range, °F	32 to +140
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no
Flammability D 635	self-extinguishing
Flammability UL 94	94V-0, 94-5V

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PVC-CAW**

Revision: 02.11.2012

Date of printing: 04.02.2016

**SIMONA® PVC-CAW**

Data sheet update	02.11.2012
Density, g/cc , D-792	1.410
Tensile Strength at yield, psi , D-638	9,000
Tensile Modulus, psi , D-638	481,000
Izod Impact (notched), ft.lbs./in. , D-256	0.8
Coefficient of Thermal Expansion, in./in./°C , D-696	0.8 x 10 <sup>-4</sup>
Heat Deflection Temperature at 264 psi, °F	154
Crystalline melting range, °F , DSC (10 °C/min)	not applicable
Temperature Range, °F	32 to +140
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PVC Type II**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMONA® PVC Type II**

Data sheet update	01.10.2014
Classification	Class 15453
Classification Standard	ASTM D1784-11
Density, g/cc , D-792	1.380
Tensile Strength at yield, psi , D-638	7,400
Tensile Modulus, psi , D-638	435,000
Izod Impact (notched), ft.lbs./in. , D-256	14
Shore Hardness, (1 s), ISO 868	82
Coefficient of Thermal Expansion, in./in./°C , D-696	0.8 x 10 <sup>-4</sup>
Heat Deflection Temperature at 264 psi, °F	154
Crystalline melting range, °F , DSC (10 °C/min)	not applicable
Temperature Range, °F	-4 to +140
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no
Flammability D 635	self-extinguishing
Flammability UL 94	94V-0

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PVC-GLAS**

Revision: 22.11.2012

Date of printing: 04.02.2016

**SIMONA® PVC-GLAS**

Data sheet update	22.11.2012
Density, g/cc , D-792	1.370
Tensile Strength at yield, psi , D-638	10,600
Tensile Modulus, psi , D-638	479,000
Izod Impact (notched), ft.lbs./in. , D-256	0.52
Shore Hardness, (1 s), ISO 868	86
Coefficient of Thermal Expansion, in./in./°C , D-696	0.8 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	not applicable
Temperature Range, °F	32 to +140
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no
Flammability D 635	self-extinguishing
Flammability UL 94	94V-0

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PVC-KYRNIT®**

Revision: 02.11.2012

Date of printing: 04.02.2016

**SIMONA® PVC-KYRNIT®**

Data sheet update	02.11.2012
Density, g/cc , D-792	1.390
Tensile Strength at yield, psi , D-638	9,100
Tensile Modulus, psi , D-638	450,000
Izod Impact (notched), ft.lbs./in. , D-256	0.8
Coefficient of Thermal Expansion, in./in./°C , D-696	0.7 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	not applicable
Temperature Range, °F	32 to +140
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PVC VS-1**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMONA® PVC VS-1**

Data sheet update	01.10.2014
Density, g/cc , D-792	1.415
Tensile Strength at yield, psi , D-638	7,500
Tensile Modulus, psi , D-638	493,000
Izod Impact (notched), ft.lbs./in. , D-256	1.06
Shore Hardness, (1 s), ISO 868	84
Coefficient of Thermal Expansion, in./in./°C , D-696	0.6 x 10 <sup>-4</sup>
Heat Deflection Temperature at 264 psi, °F	154
Crystalline melting range, °F , DSC (10 °C/min)	not applicable
Temperature Range, °F	32 to +140
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no
Flammability UL 94	UL 2360 Class 1 Non-Propagating
Flammability FM 4910	Listed

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).



Trade name: **SIMONA® PVC-C CORZAN® Industrial Grade**

Revision: 01.01.2013

Date of printing: 04.02.2016

**SIMONA® PVC-C CORZAN® Industrial Grade**

Data sheet update	01.01.2013
Classification	Class 23547
Classification Standard	ASTM D1784-11
Density, g/cc , D-792	1.520
Tensile Strength at yield, psi , D-638	8,700
Tensile Modulus, psi , D-638	363,000
Shore Hardness, (1 s), ISO 868	83
Coefficient of Thermal Expansion, in./in./°C , D-696	0.7 x 10 <sup>-4</sup>
Heat Deflection Temperature at 264 psi, °F	212
Crystalline melting range, °F , DSC (10 °C/min)	not applicable
Temperature Range, °F	-40 to +203
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no
Flammability D 635	self-extinguishing

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMOPOR-LIGHT**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMOPOR-LIGHT**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.550
Tensile Strength at yield, psi , D-638	2,300
Tensile Modulus, psi , D-638	130,000
Coefficient of Thermal Expansion, in./in./°C , D-696	0.7 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	not applicable
Temperature Range, °F	32 to +140
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMOPOR-COLOR**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMOPOR-COLOR**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.600
Tensile Strength at yield, psi , D-638	2,300
Tensile Modulus, psi , D-638	145,000
Coefficient of Thermal Expansion, in./in./°C , D-696	0.7 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	not applicable
Temperature Range, °F	32 to +140
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMOPOR-DIGITAL**

Revision: 01.10.2014

Date of printing: 04.02.2016

**SIMOPOR-DIGITAL**

Data sheet update	01.10.2014
Density, g/cc , D-792	0.550
Tensile Strength at yield, psi , D-638	2,300
Tensile Modulus, psi , D-638	130,000
Coefficient of Thermal Expansion, in./in./°C , D-696	0.7 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	not applicable
Temperature Range, °F	32 to +140
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	no

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PVDF KYNAR® 1000**

Revision: 02.11.2012

Date of printing: 04.02.2016

**SIMONA® PVDF KYNAR® 1000**

Data sheet update	02.11.2012
Density, g/cc , D-792	1.780
Tensile Strength at yield, psi , D-638	7,900
Tensile Modulus, psi , D-638	282,000
Coefficient of Thermal Expansion, in./in./°C , D-696	1.3 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	338° F - 341.6° F
Temperature Range, °F	-22 to +284
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes
Flammability FM 4910	Listed

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PVDF-SK polyester backed**

Revision: 02.11.2012

Date of printing: 04.02.2016

**SIMONA® PVDF-SK polyester backed**

Data sheet update	02.11.2012
Density, g/cc , D-792	1.780
Tensile Strength at yield, psi , D-638	7,900
Tensile Modulus, psi , D-638	282,000
Coefficient of Thermal Expansion, in./in./°C , D-696	1.3 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	338° F - 341.6° F
Temperature Range, °F	-22 to +284
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMONA® PVDF-GK glass fibre backed**

Revision: 02.11.2012

Date of printing: 04.02.2016

**SIMONA® PVDF-GK glass fibre backed**

Data sheet update	02.11.2012
Density, g/cc , D-792	1.780
Tensile Strength at yield, psi , D-638	7,900
Tensile Modulus, psi , D-638	282,000
Coefficient of Thermal Expansion, in./in./°C , D-696	1.3 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	338° F - 341.6° F
Temperature Range, °F	-22 to +284
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMOLIFE HDPE**

Revision: 30.07.2014

Date of printing: 04.02.2016

**SIMOLIFE HDPE**

Data sheet update	30.07.2014
Density, g/cc , D-792	0.963
Tensile Modulus, psi , D-638	230,000
Shore Hardness, (1 s), ISO 868	70
Coefficient of Thermal Expansion, in./in./°C , D-696	1.8 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	> 176 °F
Temperature Range, °F	-58 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes
Processing temperature, °F , (oven temperature)*	330 - 360
Heat-up time, min/mm sheet thickness , (retention time in oven)*	2 - 3
Notice	* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).



Trade name: **SIMOLIFE UHMWPE**

Revision: 30.07.2014

Date of printing: 04.02.2016

**SIMOLIFE UHMWPE**

Data sheet update	30.07.2014
Density, g/cc , D-792	0.930
Tensile Modulus, psi , D-638	100,000
Shore Hardness, (1 s), ISO 868	60
Coefficient of Thermal Expansion, in./in./°C , D-696	1.8 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	> 176 °F
Temperature Range, °F	-436 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes
Processing temperature, °F , (oven temperature)*	370 - 420
Heat-up time, min/mm sheet thickness , (retention time in oven)*	3 - 4
Notice	* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMOLIFE LDPE**

Revision: 30.07.2014

Date of printing: 04.02.2016

**SIMOLIFE LDPE**

Data sheet update	30.07.2014
Density, g/cc , D-792	0.920
Tensile Modulus, psi , D-638	36,000
Shore Hardness, (1 s), ISO 868	45
Coefficient of Thermal Expansion, in./in./°C , D-696	2.0 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	> 176 °F
Temperature Range, °F	-58 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes
Processing temperature, °F , (oven temperature)*	250 - 270
Heat-up time, min/mm sheet thickness , (retention time in oven)*	2 - 3
Notice	* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMOLIFE PP-Homopolymer**

Revision: 30.07.2014

Date of printing: 04.02.2016

**SIMOLIFE PP-Homopolymer**

Data sheet update	30.07.2014
Density, g/cc , D-792	0.905
Tensile Modulus, psi , D-638	210,000
Shore Hardness, (1 s), ISO 868	78
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	>212° F
Temperature Range, °F	32 to +212
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes
Processing temperature, °F , (oven temperature)*	360 - 420
Heat-up time, min/mm sheet thickness , (retention time in oven)*	2 - 3
Notice	* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMOLIFE PP-Copolymer**

Revision: 30.07.2014

Date of printing: 04.02.2016

**SIMOLIFE PP-Copolymer**

Data sheet update	30.07.2014
Density, g/cc , D-792	0.910
Tensile Modulus, psi , D-638	195,000
Shore Hardness, (1 s), ISO 868	74
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	>176° F
Temperature Range, °F	-4 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes
Processing temperature, °F , (oven temperature)*	360 - 420
Heat-up time, min/mm sheet thickness , (retention time in oven)*	2 - 3
Notice	* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMOLIFE PETG**

Revision: 08.08.2014

Date of printing: 04.02.2016

**SIMOLIFE PETG**

Data sheet update	08.08.2014
Density, g/cc , D-792	1.270
Tensile Modulus, psi , D-638	275,000
Shore Hardness, (1 s), ISO 868	78
Coefficient of Thermal Expansion, in./in./°C , D-696	0.7 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	not applicable
Temperature Range, °F	-40 to +149
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes
Processing temperature, °F , (oven temperature)*	320 - 340
Heat-up time, min/mm sheet thickness , (retention time in oven)*	3 - 4
Notice	* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMOLIFE EVA flex**

Revision: 30.07.2014

Date of printing: 04.02.2016

**SIMOLIFE EVA flex**

Data sheet update	30.07.2014
Density, g/cc , D-792	0.934
Tensile Modulus, psi , D-638	10,900
Shore Hardness, (1 s), ISO 868	39
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	> 149 °F
Temperature Range, °F	-58 to +149
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes
Processing temperature, °F , (oven temperature)*	300 - 320
Heat-up time, min/mm sheet thickness , (retention time in oven)*	1.5 - 2.5
Notice	* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).

Trade name: **SIMOLIFE EVA superflex**

Revision: 30.07.2014

Date of printing: 04.02.2016

**SIMOLIFE EVA superflex**

Data sheet update	30.07.2014
Density, g/cc , D-792	0.955
Tensile Modulus, psi , D-638	2,800
Shore Hardness, (1 s), ISO 868	29
Coefficient of Thermal Expansion, in./in./°C , D-696	1.6 x 10 <sup>-4</sup>
Crystalline melting range, °F , DSC (10 °C/min)	> 149 °F
Temperature Range, °F	-58 to +149
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	yes
Processing temperature, °F , (oven temperature)*	300 - 320
Heat-up time, min/mm sheet thickness , (retention time in oven)*	1.5 - 2.5
Notice	* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [mail@simona-america.com](mailto:mail@simona-america.com).