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SIMONA® PE Semi-Finished Parts

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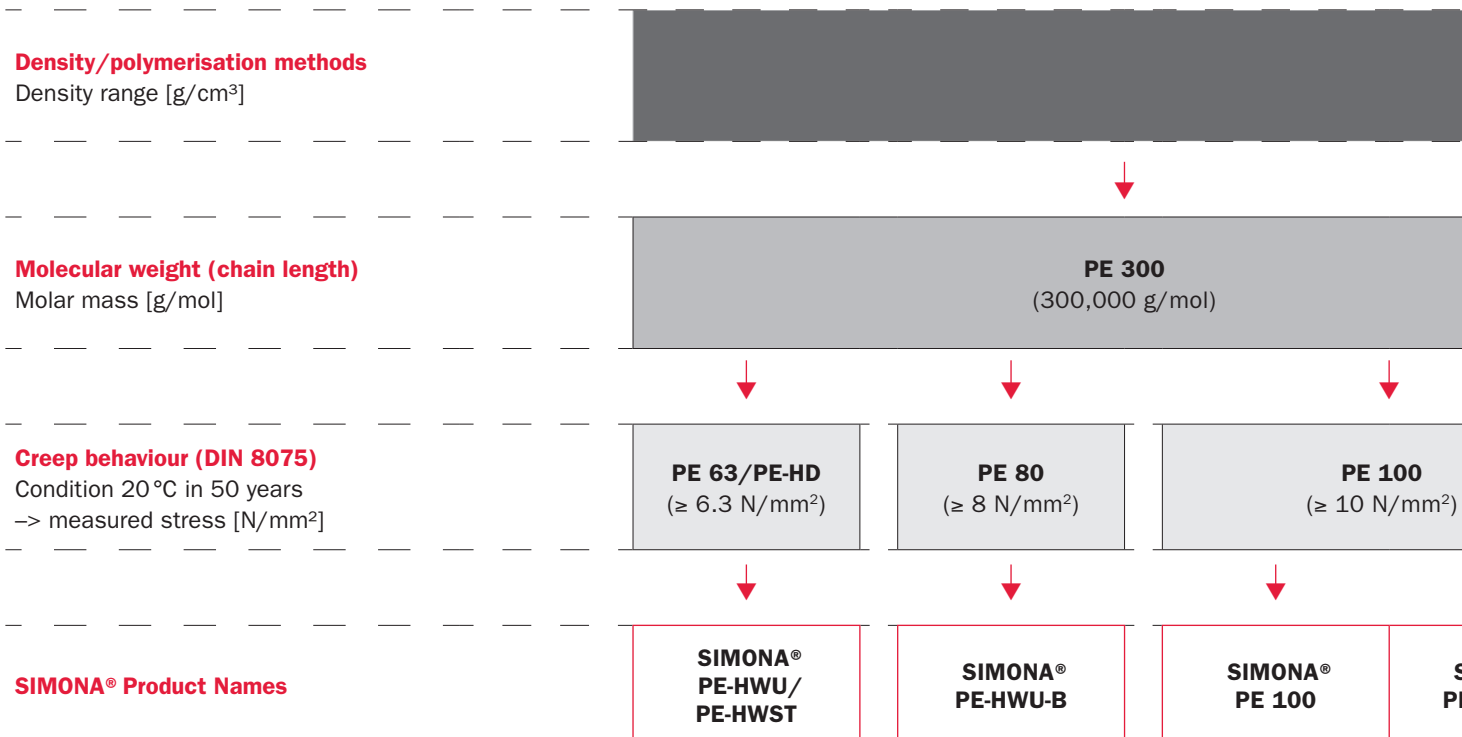


SIMONA® Product Names According to PE Classification

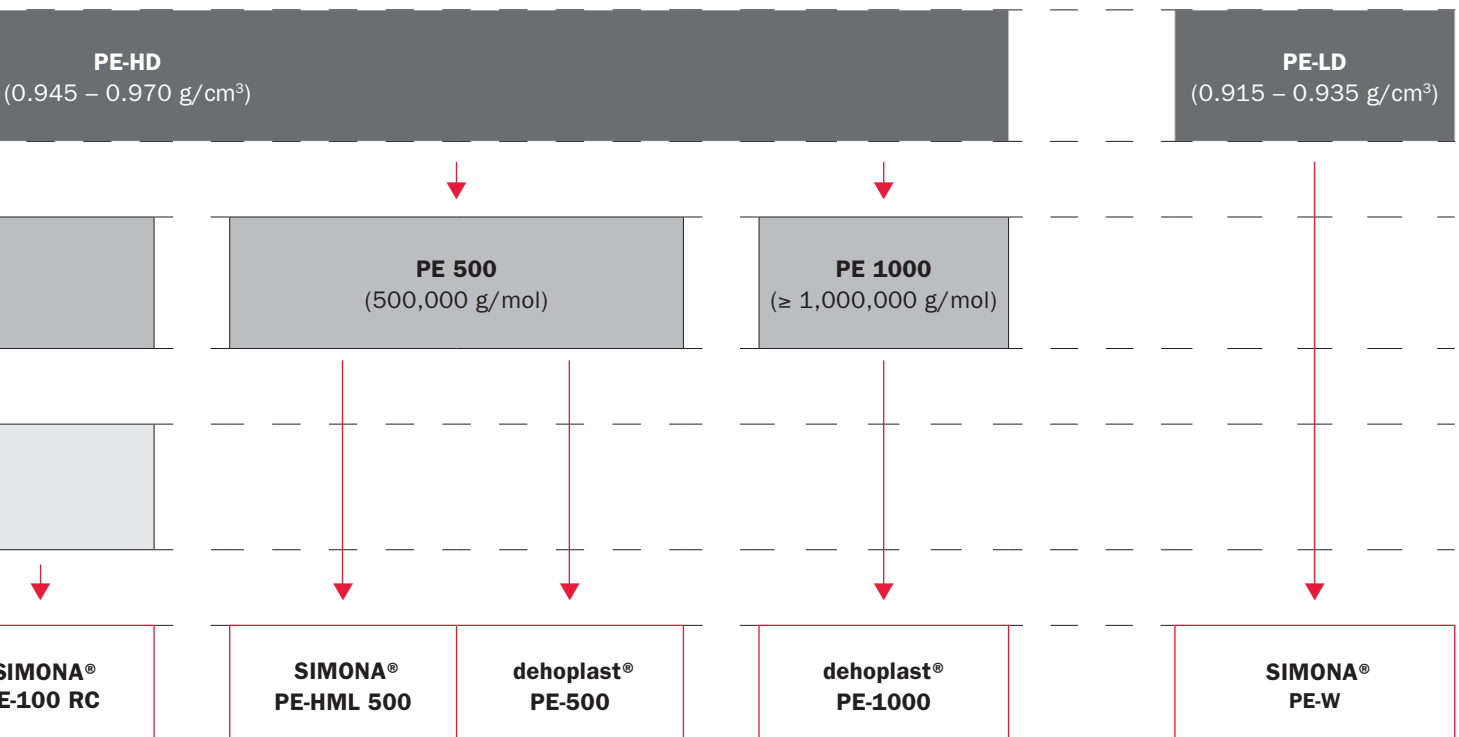
Polyethylene (PE) is classified according to various criteria: in addition to distinguishing between individual production methods (e.g. low- and high-pressure processes), polyethylene is generally categorised according to density, molecular weight and creep behaviour. Within this context, it is possible that various types of PE display different properties with regard to one of the aforementioned criteria, while they are identical in the two other areas.

Density (= specific weight)

The density of PE is directly related to the crystallinity of the material. The higher its crystallinity, the higher the density. In turn, crystallinity is dependent on the structure of the molecular chains (e.g. the number and length of branches). The table shows the various density ranges together with their classification.



Abbr.	Description	Density range g/cm ³	Molecular structure
PE-HD	High density	0.945 – 0.970	
PE-MD	Medium density	0.935 – 0.945	
PE-LD	Low density	0.915 – 0.935	
PE-LLD	Linear low density	0.915 – 0.935	
PE-VLD	Very low density	0.890 – 0.915	



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