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New product family PP-DWU AlphaPlus

First all-embracing product system featuring PP-H Excellent welding properties and high rigidity

Kirn, 22/10/07. SIMONA will be unveiling its new PP-DWU AlphaPlus product family at this year's plastics trade fair K, which takes place in Düsseldorf from October 24 to 31. By adjusting key elements within the area of process engineering, the company has been able to transfer the outstanding properties already known from PP-H AlphaPlus pipes to its range of semi-finished products. Thus for the first time SIMONA will be showcasing a complete product portfolio consisting of pipes and fittings, extruded and pressed sheets as well as solid rods and welding rods featuring a uniform PP-H as the base material throughout the range. The newly developed PP-DWU AlphaPlus material offers a higher degree of notched impact strength, together with improved rigidity and exceptional welding properties.

Fine and stable alpha-crystalline structure

PP-DWU AlphaPlus was developed with the help of special nucleating agents and targeted adjustments to process engineering. The result is a PP-H with α -crystalline properties. Retaining its unique material-specific advantages, PP-DWU AlphaPlus will thus set new standards within this segment of the market.

Superior notched impact strength and enhanced rigidity

SIMONA PP-DWU AlphaPlus offers considerably improved rigidity, in addition to increased toughness. Compared with standard PP-H, PP-DWU AlphaPlus is more resistant to impact at low temperatures, thereby delivering greater operational reliability.

Excellent welding properties

The ultra-fine microstructure of SIMONA PP-DWU AlphaPlus is thermodynamically stable and remains intact during welding; this feature applies to a range of different welding methods. The thus resulting toughness significantly reduces the level of stress concentration in the notch root and produces higher bend angles in tests conducted on the basis of DVS 2203-5.

Longer service life

The superior level of operational reliability achieved by SIMONA PP-DWU AlphaPlus is also reflected in its higher resistance to slow crack growth. Compared to a mildly α -nucleated standard PP-H with a useful life of between 700 and 800 hours achieved during Full Notch Creep Tests (FNCT), SIMONA PP-DWU AlphaPlus is capable of achieving values in excess of 1,500 hours.



Improved chemical resistance and superior stress crack resistance

The fine and highly stable crystalline structure of SIMONA PP-DWU AlphaPlus greatly reduces internal stresses and thus has a favourable effect on chemical resistance. Within this context, resistance to stress-crack-inducing chemicals is particularly high in critical regions such as weld seams or anchor points. This results in a longer service life and greater operational reliability.

With the exception of pressed sheets, SIMONA's newly developed PP-DWU AlphaPlus will be available from the first quarter of 2008 onwards. Pressed sheets in PP-DWU AlphaPlus will be launched in the third quarter of 2008.

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