Polimeri Europa Edistir® PD ICE S 900 High Impact Polystyrene - Very High ESCR

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Grade, Glass Filled

Material Notes:

Very high environmental stress cracking resistant (VH ESCR) HIPS.ICE S 900 exhibits high toughness and excellent chemical resistance to oils, fats and chemical agents, and in particular to cyclopentane. Suitable for extrusion / thermoforming and injection molding.Applications: Designed for inner liners and frames for refrigerators where cyclopentane is used as blowing agent for insulating polyurethane foams. ICE S 900 significantly improves the wall thickness distribution in thermoforming and allows to optimize the thickness of the original extruded sheet.Information provided by Polimeri Europa.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Polimeri-Europa-Edistir-PD-ICE-S-900-High-Impact-Polystyrene-Very-High-ESCR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ISO 1183
Bulk Density	0.650 g/cc	0.0235 lb/in³	ISO 60
Water Absorption	<= 0.10 % @Time 86400 sec	<= 0.10 % @Time 24.0 hour	ISO 62
Melt Flow	2.5 g/10 min @Load 5.00 kg, Temperature 200 °C	2.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	ISO 527
Tensile Strength, Yield	17.5 MPa	2540 psi	ISO 527
Elongation at Break	70 %	70 %	ISO 527
Tensile Modulus	1.45 GPa	210 ksi	ISO 527
Izod Impact, Notched (ISO)	11.0 kJ/m² @Thickness 4.00 mm	5.23 ft-lb/in² @Thickness 0.157 in	ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D696
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft²-°F	ISO 8302
Vicat Softening Point	92.0 °C @Load 5.10 kg	198 °F @Load 11.2 lb	50°C/h; ISO 306/B

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	Internal Test
Glow Wire Test	650 °C @Thickness 1.60 mm	1200 °F @Thickness 0.0630 in	IEC 60695-2-1
Shrinkage	0.40 - 0.70 %	0.40 - 0.70 %	Internal Method

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 7.00e+15 ohm-cm	>= 7.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.50e+15 ohm	>= 1.50e+15 ohm	IEC 60093
Dielectric Constant	2.5 @Frequency 50.0 Hz	2.5 @Frequency 50.0 Hz	IEC 60250
Dielectric Strength	65.0 kV/mm	1650 kV/in	IEC 60243
Dissipation Factor	0.00030 @Frequency 50.0 Hz	0.00030 @Frequency 50.0 Hz	IEC 60250
Comparative Tracking Index	500 V	500 V	Solution A; IEC 60112

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