

Supreme Petrochem SP 8001 High Gloss, ESCR High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Characteristics Very high toughness Excellent ESCR properties against common food chemicals High gloss & heat resistance Processing Extrusion & Forming Applications Fatty food containers Co-extrusion for refrigerator liners Dairy containers Industrial formed containers
Material Status: Commercial : Active Agency Ratings: FDA 21 CFR 177.1640 Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP-8001-High-Gloss-ESCR-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 200 °C	6.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	21.6 MPa	3130 psi	50 mm/min; ASTM D638
Elongation at Break	60 %	60 %	50 mm/min; ASTM D638
Flexural Strength	33.3 MPa @Thickness 3.20 mm	4830 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	1.08 GPa @Thickness 3.20 mm	156 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	3.25 J/cm @Thickness 3.20 mm	6.09 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ASTM D648
Vicat Softening Point	90.0 °C	194 °F	5kg / 120°C; ASTM D1525
	100 °C	212 °F	1kg / 120°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
Gloss	90 %	90 %	at 60°; ASTM D523

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{16}$ ohm-cm	$\geq 1.00 \times 10^{16}$ ohm-cm	IEC 93
Surface Resistance	$\geq 1.00 \times 10^{14}$ ohm	$\geq 1.00 \times 10^{14}$ ohm	IEC 93
Dielectric Constant	2.6	2.6	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00040	0.00040	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	170 - 230 °C	338 - 446 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	

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