

Supreme Petrochem SP 6605 Toughened Polystyrene

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

Material Notes:

Characteristics Excellent melt strength High stiffness Easy tearability Processing Extrusion Applications Suitable for thin film for candy wrap and window envelope Economic production of clear thermoformed deep draw Single serve glasses Material Status: Commercial :

ActiveAgency Ratings: FDA 21 CFR 177.1640Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP-6605-Toughened-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Melt Flow	5.5 g/10 min	5.5 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.1 MPa	6400 psi	50 mm/min; ASTM D638
Elongation at Break	15 %	15 %	50 mm/min; ASTM D638
Flexural Strength	68.6 MPa	9950 psi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Modulus	2.75 GPa	398 ksi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Izod Impact, Notched	0.150 J/cm	0.281 ft-lb/in	ASTM D256
	@Thickness 3.20 mm	@Thickness 0.126 in	
Izod Impact, Unnotched	1.70 J/cm	3.18 ft-lb/in	ASTM D256
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	ASTM D648
Vicat Softening Point	103 °C	217 °F	1kg / 120°C; ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Haze	13 % @Thickness 1.00 mm	13 % @Thickness 0.0394 in	SPL test method
Transmission, Visible	86 % @Thickness 1.00 mm	86 % @Thickness 0.0394 in	SPL test method

Processing Properties	Metric	English	Comments
Melt Temperature	<= 220 °C	<= 428 °F	
Mold Temperature	40.0 - 50.0 °C	104 - 122 °F	

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