

Supreme Petrochem SP 243 Toughened Polystyrene

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

Material Notes:

Characteristics Good flexibility Good clarity High stiffness Processing Extrusion Thermoforming Applications Clear thermoformed containers

Oriented PS films Lids 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-243-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 Â°C	@Load 11.0 lb, Temperature 392 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.7 MPa	6050 psi	50 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	50 mm/min; ASTM D638
Flexural Strength	58.8 MPa	8530 psi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Modulus	2.16 GPa	313 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	2.00 J/cm	3.75 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 Â°C	178 Â°F	ASTM D648
Vicat Softening Point	103 Â°C	217 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Haze	2.5 %	2.5 %	SPL test method
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Transmission, Visible	88 %	88 %	SPL test method
	@Thickness 1.00 mm	@Thickness 0.0394 in	

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

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