

Supreme Petrochem SP6409 High Gloss Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

Characteristics High gloss in co-extrusion Improved dart impact strength of co-extruded sheets Processing Co-extrusion cap layer

Applications Gloss cap layer for refrigerator liner and other forming applications requiring high toughness 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-SP6409-High-Gloss-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	6.0 g/10 min	6.0 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	31.4 MPa	4550 psi	50 mm/min; ASTM D638
Elongation at Break	20 %	20 %	50 mm/min; ASTM D638
Flexural Strength	49.0 MPa	7110 psi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Modulus	1.96 GPa	284 ksi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Izod Impact, Notched	0.400 J/cm	0.749 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)	78.0 °C	172 °F	ASTM D648
Vicat Softening Point	98.0 °C	208 °F	1kg / 120°C; ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Gloss	95 %	95 %	at 60°; ASTM D523

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 260 °C	356 - 500 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	

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