

Total Polystyrene Impact 3450 Aesthetic, High Fluidity, High Heat Resistance, High Impact Polystyrene

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

Material Notes:

POLYSTYRENE IMPACT 3450 is a high impact polystyrene with high heat resistance, good flow, high stiffness and good aesthetics. With such an ideal balance of properties, POLYSTYRENE IMPACT 3450 is well suited for the fabrication of heat resistant items by injection molding and extrusion-thermoforming. In injection molding, the combination of good flow and high heat resistance of POLYSTYRENE IMPACT 3450 makes short cycle times possible. In extrusion-thermoforming, POLYSTYRENE IMPACT 3450 is perfectly designed for hot-hill applications. Applications high heat food packaging and miscellaneous heat-resistant items, coffee cups, office equipment, house hold, toys and electronics. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Polystyrene-Impact-3450-Aesthetic-High-Fluidity-High-Heat-Resistance-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	7.0 g/10 min @Load 5.00 kg, Temperature 200 °C	7.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133 H

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	77	77	ISO 2039-2
Tensile Strength at Break	28.0 MPa	4060 psi	ISO 527-2
Tensile Strength, Yield	32.5 MPa	4710 psi	ISO 527-2
Elongation at Break	>= 55 %	>= 55 %	ISO 527-2
Tensile Modulus	2.25 GPa	326 ksi	ISO 527-2
Flexural Modulus	2.25 GPa	326 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	91.0 µm/m-°C	50.6 µin/in-°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (204 psi)	94.0 °C	201 °F	annealed; ISO 75-2A
Vicat Softening Point	95.0 °C	203 °F	50°C per hour; ISO 306B50
	@Load 5.10 kg	@Load 11.2 lb	
	103 °C	217 °F	50°C per hour; ISO 306A50
	@Load 1.02 kg	@Load 2.25 lb	

Optical Properties	Metric	English	Comments
Gloss	80 %	80 %	at 60°; Internal Method

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	ISO IEC 93
Dielectric Strength	150 kV/mm	3810 kV/in	

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