

Total Polystyrene Impact 6540 Easy Flow Impact Polystyrene

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

Material Notes:

POLYSTYRENE IMPACT 6540 is an easy flowing, high impact polystyrene with a good balance of mechanical and thermal properties. This resin combines physical properties such as the flow necessary for large or complex moldings, the impact resistance for good mechanical properties in thin wall sections and good thermal properties for articles subjected to elevated temperatures in use. The combination of properties also offers high productivity. Applications POLYSTYRENE IMPACT 6540 satisfies the requirements of a wide range of molding applications. Toys, television housing, food packaging, refrigerator, computer keyboards, office equipment, household items...Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Polystyrene-Impact-6540-Easy-Flow-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	11.5 g/10 min @Load 5.00 kg, Temperature 200 °C	11.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133 H

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	78	78	ISO 2039-2
Tensile Strength at Break	20.0 MPa	2900 psi	ISO 527-2
Tensile Strength, Yield	25.0 MPa	3630 psi	ISO 527-2
Elongation at Break	>= 45 %	>= 45 %	ISO 527-2
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
Izod Impact, Notched (ISO)	9.50 kJ/m ²	4.52 ft-lb/in ²	ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear	91.0 µm/m-°C	50.6 µin/in-°F	
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	unannealed; ISO 75-2A
	80.0 °C	176 °F	annealed; ISO 75-2A
	83.0 °C	181 °F	

Vicat Softening Point Thermal Properties	Metric @Load 5.10 kg	English @Load 11.2 lb	50°C per hour; ISO 306B50 Comments
	92.0 °C @Load 1.02 kg	198 °F @Load 2.25 lb	50°C per hour; ISO 306A50

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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