

Total PSI 3441 High Heat Resistance Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

Material Notes:

Total Petrochemicals Polystyrene 3441 is a high heat resistance, high impact polystyrene for injection molding. It is recommended for the manufacturing of articles which require good dimensional stability at elevated temperatures. Suitable applications for Total Petrochemicals Polystyrene 3441 include TV Covers, printers, scanners, electrical appliances and toys. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PSI-3441-High-Heat-Resistance-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.070 %	0.070 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	4.5 g/10 min @Load 5.00 kg, Temperature 200 °C	4.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238
Spiral Flow	46.0 cm @Temperature 220 °C	18.1 in @Temperature 428 °F	ASTM D3123

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	99	99	ASTM D785
Tensile Strength at Break	30.0 MPa	4350 psi	ASTM D638
Tensile Strength, Yield	33.0 MPa	4790 psi	ASTM D638
Elongation at Break	55 %	55 %	ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	ASTM D638
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.5 µm/m-°C	50.3 µin/in-°F	ASTM D696
Vicat Softening Point	99.0 °C @Load 1.02 kg	210 °F @Load 2.25 lb	50°C per hour; ASTM D1525

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	ISO IEC 93
Dielectric Strength	150 kV/mm	3810 kV/in	ASTM D149

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