

Total PSI 4440(EU) High Impact Polystyrene

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

Material Notes:

4440 is a high impact polystyrene for the injection molding of parts demanding good dimensional stability at high temperatures, particularly front and back covers for television sets. In addition, the flow properties of this grade make it particularly suitable for the molding of large parts and for use with new techniques such as gas injection. Application Television front and back covers, Office equipment Information provided provided by Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines. This product was previously known as LACQRENE®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PSI-4440EU-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	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	10 g/10 min @Load 5.00 kg, Temperature 200 °C	10 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	76	76	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	55 %	55 %	ISO 572-2
Tensile Modulus	2.05 GPa	297 ksi	ISO 527-2
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	91.0 μm/m-°C @Temperature 20.0 °C	50.6 μin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	Annealed; ISO 75-2A

Thermal Properties	Metric	English	Comments
Temperature at 1.8 MPa (264 psi)	14.0 °C	16 °F	Unannealed; ISO 75-2A
Vicat Softening Point	88.0 °C	190 °F	50N (T° increase = 5°C/h); ISO 306B50
	96.0 °C	205 °F	10N (T° increase = 50°C/h); ISO 306A50

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	ISO IEC93
Dielectric Strength	150 kV/mm	3810 kV/in	

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