

Total PSI 4440(AS) 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. Applications: 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-4440AS-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D1505
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	ASTM D1238G

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	76	76	ASTM D785
Tensile Strength, Yield	24.5 MPa	3560 psi	ASTM D638M
Elongation at Break	55 %	55 %	ASTM D638M
Flexural Yield Strength	3.92 MPa	569 psi	ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	ASTM D790
Izod Impact, Notched	0.981 J/cm	1.84 ft-lb/in	ASTM D256A

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 1.8 MPa (264 psi)	73.0 °C	163 °F	ASTM D648
Vicat Softening Point	88.0 °C	190 °F	50N; ASTM D1525B
	96.0 °C	205 °F	10N; ASTM D1525A
Flammability, UL94	HB	HB	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	$\geq 1.00e+13$ ohm	$\geq 1.00e+13$ ohm	ISO IEC93
Dielectric Strength	150 kV/mm	3810 kV/in	

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 240 °C	392 - 464 °F	
Drying Temperature	70.0 °C	158 °F	Pre drying temperature
Dry Time	2 hour	2 hour	

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