

Styron STYRON® 6500 Ignition Resistant Polystyrene Resin

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Overview: STYRON® 6500 is an ignition-resistant polystyrene resin with excellent balance of strength, heat resistance and flow properties that are tailor-made for consumer electronics applications. It is a non-decay ignition resistant polystyrene which is free from polybrominated diphenyl ether (PBDPE) and polybrominated biphenyl (PBB). It is designed for injection molding application.

Main Characteristics: Good flow Excellent heat resistance UL 94 V-0 @ 1.5 mm Applications: LCD TV enclosures

Information provided by Styron

Order this product through the following link:
http://www.lookpolymers.com/polymer_Styron-STYRON-6500-Ignition-Resistant-Polystyrene-Resin.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
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 D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	13.8 MPa	2000 psi	Compression Molded; ASTM D638
	19.3 MPa	2800 psi	Injection Molded; ASTM D638
Tensile Strength, Yield	17.2 MPa	2490 psi	Compression Molded; ASTM D638
	20.7 MPa	3000 psi	Injection Molded; ASTM D638
Elongation at Break	30 %	30 %	Compression Molded; ASTM D638
	40 %	40 %	Injection Molded; ASTM D638
Flexural Strength	33.8 MPa	4900 psi	Compression Molded; ASTM D790
	40.7 MPa	5900 psi	Injection Molded; ASTM D790
Flexural Modulus	1.99 GPa	289 ksi	Compression Molded; ASTM D790
	2.37 GPa	344 ksi	Injection Molded; ASTM D790
Izod Impact, Notched	0.640 J/cm @Temperature 23.0 °C	1.20 ft-lb/in @Temperature 73.4 °F	Compression Molded; ASTM D256
	0.800 J/cm @Temperature 23.0	1.50 ft-lb/in	Injection Molded; ASTM D256

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.0 µm/m-°C	42.2 µin/in-°F	ASTM D696
Vicat Softening Point	100 °C	212 °F	ASTM D1525
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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