

Styron XU 73120.00 Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Overview: XU 73120.00 Experimental Polycarbonate Resin is a high flow ignition resistant PC blend that contains no chlorinated or brominated additives. This resin is specifically designed to offer enhanced aesthetics and superior processing which makes it ideal for injection molding of large, thin-wall, or intricate parts. XU 73120.00 Experimental Polycarbonate Resin is suitable for use in a wide variety of applications in the Information Technology Equipment & Consumer Electronics industries. Applications: LCD TV Enclosures Monitor and PC Enclosures Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-XU-7312000-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Melt Flow	18 g/10 min @Load 1.20 kg, Temperature 300 °C	18 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.3 MPa @Thickness 3.20 mm	9470 psi @Thickness 0.126 in	Injection Molded; ASTM D638
Tensile Strength, Yield	64.8 MPa @Thickness 3.20 mm	9400 psi @Thickness 0.126 in	Injection Molded; ASTM D638
Elongation at Break	49 % @Thickness 3.20 mm	49 % @Thickness 0.126 in	Injection Molded; ASTM D638
Tensile Modulus	2.68 GPa @Thickness 3.20 mm	389 ksi @Thickness 0.126 in	Injection Molded; ASTM D638
Flexural Strength	95.1 MPa @Thickness 3.20 mm	13800 psi @Thickness 0.126 in	Injection Molded; ASTM D790
Flexural Modulus	2.70 GPa @Thickness 3.20 mm	392 ksi @Thickness 0.126 in	Injection Molded; ASTM D790
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.8 °C	199 °F	Unannealed; ASTM D648

Thermal Properties (Tensile strength at 1.8 MPa (264 psi))	Metric @Load 1.02 kg	English @Load 2.25 lb	Comments (Unfinished; ASTM D648)
Vicat Softening Point	114 Â°C	237 Â°F	Rate B (120Â°C/h); ASTM D1525
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	Black
	V-0 @Thickness 2.00 mm	V-0 @Thickness 0.0787 in	All Colors

Processing Properties	Metric	English	Comments
Melt Temperature	238 - 282 Â°C	460 - 540 Â°F	
Mold Temperature	37.8 - 87.8 Â°C	100 - 190 Â°F	
Drying Temperature	107 Â°C	225 Â°F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

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