

Styron CALIBRE[®] 701-10 Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Overview: CALIBRE[®] 701-10 resin is formulated and produced to supply clarity and enhanced ignition resistance. They do so while maintaining excellent physical properties and processability. CALIBRE 701-10 contains mold release. Main Characteristics: Underwriters Laboratory Inc. (UL) Applications: Industrial switches Circuit breakers Plugs, sockets and switches Street lights Safety lights Reflectors Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-CALIBRE-701-10-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183/A
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294-4
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 °C	10 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	66.0 MPa	9570 psi	ISO 527-2/50
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527-2/50
Elongation at Break	120 %	120 %	ISO 527-2/50
Elongation at Yield	6.0 %	6.0 %	ISO 527-2/50
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-2/50
Flexural Strength	100 MPa	14500 psi	2.0 mm/min (3 point); ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2.0 mm/min (3 point); ISO 178
Izod Impact, Notched (ISO)	88.0 kJ/m ² @Temperature 23.0 °C	41.9 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact, Notched	3.00 J/cm ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	123 °C	253 °F	IEC 60335-1

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	144 Â°C	291 Â°F	Annealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	123 Â°C	253 Â°F	Unannealed; ISO 75-2/A
	140 Â°C	284 Â°F	Annealed; ISO 75-2/A
Vicat Softening Point	149 Â°C	300 Â°F	ISO 306/B50
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 V	250 V	Solution A; IEC 60112
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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