

Styron CALIBRE® 5201 15 Polycarbonate, 20% Glass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

CALIBRE® 5201 is a 20% glass reinforced polycarbonate resin containing mold release for optimal processing. CALIBRE 5201 resin exhibits high modulus and excellent dimensional stability. CALIBRE 5201 polycarbonate resin is typically used for electrical boxes, lighting components and electrical connectors. Available Melt Flow Rate: 15. Data provided by Dow Chemical. This product line was spun off from Dow Chemical to Styron in 2010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-CALIBRE-5201-15-Polycarbonate-20-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM Data
Melt Flow	15 g/10 min @Load 1.20 kg, Temperature 300 °C	15 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	82.7 MPa	12000 psi	ASTM Data
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO Data
Elongation at Break	4.0 %	4.0 %	ASTM Data
Elongation at Yield	2.0 %	2.0 %	ISO Data
Tensile Modulus	5.17 GPa	750 ksi	ASTM Data
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM Data
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO Data, Low Temp
	NB	NB	ISO Data
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO Data, Low Temp
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO Data

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	Unannealed; ASTM Data
Vicat Softening Point	154 °C	309 °F	

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