

Styron CALIBRE 5101 15 Polycarbonate, 10% Glass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

Material Notes:

CALIBRE 5101 is a 10% glass reinforced polycarbonate resin containing mold release for optimal processing. CALIBRE 5101 resin exhibits high modulus and excellent dimensional stability. CALIBRE 5101 polycarbonate resin is UL listed. CALIBRE 5101 polycarbonate resin is typically used for in electrical market applications such as electrical boxes, lighting components and electrical connectors and in automotive interior applications such as instrument panel retainers. 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-5101-15-Polycarbonate-10-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM Data
Melt Density	1.17 g/cc	0.0423 lb/in ³	Melt density
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	
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
Hardness, Rockwell R	122	122	
Tensile Strength, Ultimate	60.8 MPa	8820 psi	ASTM Data
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM Data
Elongation at Break	8.0 %	8.0 %	ASTM Data
Elongation at Yield	4.0 %	4.0 %	ISO Data
Tensile Modulus	3.10 GPa	450 ksi	ASTM Data
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM Data
Izod Impact, Unnotched	0.290 J/cm	0.543 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	2.04 J/g-°C	0.488 BTU/lb-°F	

Thermal Properties Thermal Conductivity	Metric W/m-K	English U-in/hr-ft ² - °F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	144 °C	291 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	134 °C	273 °F	Unannealed; ASTM Data

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