

Polymer Resources PCSF-FR1 Polycarbonate, 10% Glass Reinforced Structural Foam Grade

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled , Polycarbonate, Foam Grade, Glass Filled , Polycarbonate, Glass Fiber Filled, Flame Retardant

Material Notes:

Polycarbonate, 10% Glass Reinforced Structural Foam Grade Features: • Flame Retardant • Foamable • Self Extinguishing Process: Foam

Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-PCSF-FR1-Polycarbonate-10-Glass-Reinforced-Structural-Foam-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	5.0 - 12 g/10 min @Load 1.20 kg, Temperature 300 °C	5.0 - 12 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.5 MPa	9500 psi	ASTM D638
Tensile Strength, Yield	63.1 MPa	9150 psi	ASTM D638
Flexural Strength	109 MPa	15800 psi	ASTM D790
Flexural Modulus	3.79 GPa	550 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Temperature 22.8 °C	2.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	143 °C	290 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	ASTM D648
UL RTI, Electrical	80.0 °C @Thickness 5.99 mm	176 °F @Thickness 0.236 in	UL 746
UL RTI, Mechanical with Impact	80.0 °C @Thickness 5.99 mm	176 °F @Thickness 0.236 in	UL 746

Thermal Properties	^{80.0 °C} Metric	^{176 °F} English	Comments
UL 94, V-0, V-0, V-0 without impact	@Thickness 5.99 mm	@Thickness 0.236 in	
Flammability, UL94	V-0	V-0	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	254 - 266 °C	490 - 510 °F	
Middle Barrel Temperature	293 - 310 °C	560 - 590 °F	
Front Barrel Temperature	293 - 310 °C	560 - 590 °F	
Melt Temperature	288 - 316 °C	550 - 600 °F	
Mold Temperature	71.1 - 104 °C	160 - 220 °F	
Drying Temperature	118 - 124 °C	245 - 255 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

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