

## Polymer Resources PCSF-FR Polycarbonate, 5% 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, 5% 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-FR-Polycarbonate-5-Glass-Reinforced-Structural-Foam-Grade.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PCSF-FR-Polycarbonate-5-Glass-Reinforced-Structural-Foam-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 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	58.6 MPa	8500 psi	ASTM D638
Tensile Strength, Yield	55.8 MPa	8100 psi	ASTM D638
Flexural Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	3.17 GPa	460 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Temperature 22.8 °C	3.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	131 °C	268 °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	Metric	English	Comments
UL 94, V-0, V-0, V-0, V-0 without impact	80.0 °C @Thickness 5.99 mm	176 °F @Thickness 0.236 in	
Flammability, UL94	V-0 @Thickness 6.00 mm	V-0 @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	76.7 - 98.9 °C	170 - 210 °F	
Drying Temperature	118 - 124 °C	245 - 255 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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