

## Polymer Resources PCSF-FR G30 Polycarbonate, 30% Glass Reinforced Structural Foam Grade

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Foam Grade, Glass Filled

### Material Notes:

Process: Foam Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Foam grades tested with foamed parts with a 10% weight reduction relative to unfoamed parts. Information provided by Polymer Resources Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polymer-Resources-PCSF-FR-G30-Polycarbonate-30-Glass-Reinforced-Structural-Foam-Grade.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PCSF-FR-G30-Polycarbonate-30-Glass-Reinforced-Structural-Foam-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Melt Flow	3.0 - 7.0 g/10 min	3.0 - 7.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	68.9 MPa	10000 psi	ASTM D638
Tensile Strength, Yield	68.9 MPa	10000 psi	ASTM D638
Flexural Strength	125 MPa	18200 psi	ASTM D790
Flexural Modulus	6.55 GPa	950 ksi	ASTM D790
Izod Impact, Unnotched	5.34 J/cm	10.0 ft-lb/in	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)	132 °C	270 °F	ASTM D648
Flammability, UL94	V-0	V-0	1/8 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	

Processing Properties	Metric 104 °C	English 210 °F	Comments
Drying Temperature	118 - 124 °C	245 - 255 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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