

## Polymer Resources PC-G20-[color]-WS Polycarbonate, 20% Glass Reinforced

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

### Material Notes:

Process: Injection 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-PC-G20-color-WS-Polycarbonate-20-Glass-Reinforced.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PC-G20-color-WS-Polycarbonate-20-Glass-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
Melt Flow	4.0 - 10 g/10 min	4.0 - 10 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	107 MPa	15500 psi	ASTM D638
Flexural Strength	112 MPa	16200 psi	ASTM D790
Flexural Modulus	5.00 GPa	725 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	149 °C	300 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	285 °F	ASTM D648
Flammability, UL94	V-2	V-2	1/16 in
	V-0	V-0	1/8 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	293 - 316 °C	560 - 600 °F	
Middle Barrel Temperature	304 - 327 °C	580 - 620 °F	
Front Barrel Temperature	316 - 338 °C	600 - 640 °F	
Melt Temperature	302 - 329 °C	575 - 625 °F	
Mold Temperature	82.2 - 116 °C	180 - 240 °F	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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