

Polymer Resources PC-HM-FR1-[color]-TFE Polycarbonate, 10% Glass Reinforced, PTFE, Flame Retardant, Wear Resistant

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

Material Notes:

Polycarbonate, 10% Glass Reinforced, PTFE, Flame Retardant, Wear Resistant
 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-HM-FR1-color-TFE-Polycarbonate-10-Glass-Reinforced-PTFE-Flame-Retardant-Wear-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Melt Flow	5.0 - 15 g/10 min @Load 1.20 kg, Temperature 300 °C	5.0 - 15 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	55.8 MPa	8100 psi	ASTM D638
Flexural Strength	103 MPa	14900 psi	ASTM D790
Flexural Modulus	3.38 GPa	490 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
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	V-0 - 5VA @Thickness 3.00 mm	V-0 - 5VA @Thickness 0.118 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	118 - 124 °C	245 - 255 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0005	

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