

Polymer Resources PC-HM-FR2 Polycarbonate, 10% Glass Reinforced, Flame Retardant

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

Material Notes:

Polycarbonate, 10% Glass Reinforced, Flame Retardant 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-FR2-Polycarbonate-10-Glass-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Melt Flow	8.0 - 16 g/10 min @Load 1.20 kg, Temperature 300 °C	8.0 - 16 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
UL RTI, Electrical	125 °C @Thickness 1.50 mm	257 °F @Thickness 0.0591 in	UL 746
	125 °C @Thickness 3.00 mm	257 °F @Thickness 0.118 in	UL 746
UL RTI, Mechanical with Impact	125 °C	257 °F	UL 746

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
	125 °C	257 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	110 °C	230 °F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	110 °C	230 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 sec	>= 120 sec	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Amp Arc Ignition, HAI	15 - 30 arcs	15 - 30 arcs	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	60 - 120 arcs	60 - 120 arcs	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746

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	

Processing Properties	Metric4.00 hour	English.00 hour	Comments
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Descriptive Properties	Value	Comments
Vent	0.0005	

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