

Polymer Resources PC-FR2-TFE Polycarbonate, Flame Retardant, 5% PTFE

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, PTFE Filled , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Polycarbonate, Improved Flame Retardant, 5% PTFE Lubricant
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-FR2-TFE-Polycarbonate-Flame-Retardant-5-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	ASTM D955
Melt Flow	9.0 - 16 g/10 min @Load 1.20 kg, Temperature 300 °C	9.0 - 16 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.9 MPa	8250 psi	ASTM D638
Tensile Strength, Yield	56.9 MPa	8250 psi	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm @Temperature 22.8 °C	2.20 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	36.2 J	26.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	265 °F	ASTM D648
UL RTI, Electrical	80.0 °C @Thickness 1.50 mm	176 °F @Thickness 0.0591 in	UL 746
	80.0 °C @Thickness 3.00 mm	176 °F @Thickness 0.118 in	UL 746

Thermal Properties UL RTI, Mechanical with Impact	80.0 °C Metric	176 °F English	Comments UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	80.0 °C	176 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	80.0 °C	176 °F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	80.0 °C	176 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-2	V-2	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	271 - 293 °C	520 - 560 °F	
Middle Barrel Temperature	282 - 304 °C	540 - 580 °F	
Front Barrel Temperature	293 - 316 °C	560 - 600 °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	

Descriptive Properties	Value	Comments
Vent	0.0005	

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