

Polymer Resources PC/TP-FR3 Flame Retardant PC/Polyester Alloy

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP

Material Notes:

Flame Retardant, High Impact, Excellent Chemical Resistance
 Features: • Flame Retardant • Impact Modified • Self Extinguishing • Good
 Chemical Resistance
 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-PCTP-FR3-Flame-Retardant-PCPolyester-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Linear Mold Shrinkage	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955
Melt Flow	12 - 20 g/10 min @Load 2.16 kg, Temperature 265 °C	12 - 20 g/10 min @Load 4.76 lb, Temperature 509 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7100 psi	ASTM D638
Tensile Strength, Yield	42.7 MPa	6200 psi	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	5.87 J/cm @Temperature 22.8 °C	11.0 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)	98.9 °C	210 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.59 mm	V-0 @Thickness 0.0626 in	
	V-0 @Thickness 3.17 mm	V-0 @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 271 °C	480 - 520 °F	
Middle Barrel Temperature	249 - 282 °C	480 - 540 °F	
Front Barrel Temperature	249 - 282 °C	480 - 540 °F	
Melt Temperature	246 - 274 °C	475 - 525 °F	
Mold Temperature	65.6 - 87.8 °C	150 - 190 °F	
Drying Temperature	110 - 116 °C	230 - 240 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0015	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China