

## Polymer Resources PC/TP-FR2 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-FR2-Flame-Retardant-PCPolyester-Alloy.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PCTP-FR2-Flame-Retardant-PCPolyester-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
Melt Flow	5.0 - 12 g/10 min @Load 2.16 kg, Temperature 265 °C	5.0 - 12 g/10 min @Load 4.76 lb, Temperature 509 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.3 MPa	7000 psi	ASTM D638
Tensile Strength, Yield	50.3 MPa	7300 psi	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	3.74 J/cm @Temperature -40.0 °C	7.00 ft-lb/in @Temperature -40.0 °F	ASTM D256
	6.94 J/cm @Temperature 22.8 °C	13.0 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)	90.6 °C	195 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	ASTM D648
UL RTI, Electrical	75.0 °C @Thickness 1.50 mm	167 °F @Thickness 0.0591 in	UL 746

Thermal Properties with Impact	75.0 °C Metric	167 °F English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical without Impact	75.0 °C @Thickness 1.50 mm	167 °F @Thickness 0.0591 in	UL 746
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 271 °C	480 - 520 °F	
Middle Barrel Temperature	254 - 277 °C	490 - 530 °F	
Front Barrel Temperature	260 - 282 °C	500 - 540 °F	
Melt Temperature	246 - 274 °C	475 - 525 °F	
Mold Temperature	65.6 - 87.8 °C	150 - 190 °F	
Drying Temperature	104 - 110 °C	220 - 230 °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.

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