

## Polymer Resources TP-FR-IM2-[color]-6 Polybutylene Terephthalate, Low Temperature Impact Modified, Flame Retardant

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Flame Retardant , Polybutylene Terephthalate (PBT), Impact Grade

### Material Notes:

Polybutylene Terephthalate, Low Temperature Impact Modified, 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-TP-FR-IM2-color-6-Polybutylene-Terephthalate-Low-Temperature-Impact-Modified-Flame-Retardant.php](http://www.lookpolymers.com/polymer_Polymer-Resources-TP-FR-IM2-color-6-Polybutylene-Terephthalate-Low-Temperature-Impact-Modified-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 - 0.014 cm/cm	0.010 - 0.014 in/in	ASTM D955
Melt Flow	4.0 - 12 g/10 min @Load 2.16 kg, Temperature 250 °C	4.0 - 12 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.9 MPa	5500 psi	ASTM D638
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM D638
Flexural Strength	65.5 MPa	9500 psi	ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	ASTM D790
Izod Impact, Notched	3.20 J/cm @Temperature -40.0 °C	6.00 ft-lb/in @Temperature -40.0 °F	ASTM D256
	6.41 J/cm @Temperature 22.8 °C	12.0 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)	127 °C	260 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	118 °C	245 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 0.750 mm Metric	@Thickness 0.0295 in English	Comments
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	238 - 254 °C	460 - 490 °F	
Middle Barrel Temperature	243 - 260 °C	470 - 500 °F	
Front Barrel Temperature	249 - 266 °C	480 - 510 °F	
Melt Temperature	246 - 274 °C	475 - 525 °F	
Mold Temperature	48.9 - 76.7 °C	120 - 170 °F	
Drying Temperature	116 - 121 °C	240 - 250 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0005	

## Contact Songhan Plastic Technology Co.,Ltd.

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