

LG Chemical Lupox® PBT-HI1002FM Impact Modified, Flame Retardant PBT

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

Material Notes:

Information provided by US distributor Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-PBT-HI1002FM-Impact-Modified-Flame-Retardant-PBT.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.3 MPa	7300 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Yield Strength	78.1 MPa @Thickness 3.17 mm	11300 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	1.93 GPa @Thickness 3.17 mm	280 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	1.66 J/cm @Thickness 3.17 mm	3.11 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Â°C	207 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.7937 mm	V-0 @Thickness 0.03125 in	UL94

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 260 Â°C	464 - 500 Â°F	
Middle Barrel Temperature	250 - 270 Â°C	482 - 518 Â°F	
Front Barrel Temperature	250 - 270 Â°C	482 - 518 Â°F	
Nozzle Temperature	260 - 280 Â°C	500 - 536 Â°F	
Melt Temperature	260 - 280 Â°C	500 - 536 Â°F	
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	Surface

Processing Properties	Metric	English	Comments
Drying Temperature	120 Å° C	248 Å° F	5 hr.
	140 Å° C	284 Å° F	3 hr.
	120 Å° C	248 Å° F	
	@Time 18000 sec	@Time 5.00 hour	
	140 Å° C	284 Å° F	
	@Time 10800 sec	@Time 3.00 hour	
Injection Pressure	41.4 - 62.1 MPa	6000 - 9000 psi	Second
	48.3 - 75.8 MPa	7000 - 11000 psi	First
Back Pressure	0.000 - 0.345 MPa	0.000 - 50.0 psi	
Shot Size	40 - 80 %	40 - 80 %	
Vent Depth	0.00254 - 0.00381 cm	0.00100 - 0.00150 in	

Descriptive Properties	Value	Comments
Ram Speed Setting	Medium to Fast	
Screw Speed	Medium	

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