

LG Chemical Lupox® PBT-HI1002F Impact Modified, Flame Retardant PBT Alloy

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

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-HI1002F-Impact-Modified-Flame-Retardant-PBT-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0080 - 0.013 cm/cm	0.0080 - 0.013 in/in	ASTM D955
	@Thickness 1.00 - 2.50 mm	@Thickness 0.0394 - 0.0984 in	
	0.010 - 0.015 cm/cm	0.010 - 0.015 in/in	ASTM D955
	@Thickness 2.50 - 5.00 mm	@Thickness 0.0984 - 0.197 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.3 MPa	7300 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Strength	70.3 MPa	10200 psi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Modulus	1.86 GPa	270 ksi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched	1.87 J/cm	3.50 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	4.27 J/cm	8.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	97.8 Â°C	208 Â°F	ASTM D648
Flammability, UL94	5VA	5VA	V-0/0.090"
	V-0	V-0	

Thermal Properties	Metric @ Thickness 0.762 mm	English @ Thickness 0.0300 in	Comments
--------------------	--------------------------------	----------------------------------	----------

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
Drying Temperature	120 Â°C	248 Â°F	5 hr.
	140 Â°C	284 Â°F	3 hr.
	120 Â°C	248 Â°F	
	@Time 18000 sec	@Time 5.00 hour	
	140 Â°C	284 Â°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	

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