

LG Chemical Lupox® PBT-GP-1000 High Flow PBT

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

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-GP-1000-High-Flow-PBT.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
Water Absorption	0.080 %	0.080 %	24 hours at 73°F; ASTM D570
Linear Mold Shrinkage	0.012 - 0.021 cm/cm	0.012 - 0.021 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Ultimate	56.5 MPa @Thickness 3.17 mm	8190 psi @Thickness 0.125 in	ASTM D638
Tensile Strength, Yield	53.8 MPa	7800 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Yield Strength	83.4 MPa	12100 psi	ASTM D570
Flexural Modulus	2.25 GPa	327 ksi	ASTM D570
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB @Thickness 0.7937 mm	HB @Thickness 0.03125 in	UL94

Electrical Properties	Metric	English	Comments
Arc Resistance	130 sec	130 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	225 - 235 °C	437 - 455 °F	
Middle Barrel Temperature	230 - 240 °C	446 - 464 °F	

Front Barrel Temperature Processing Properties	235 - 245 Â°C Metric	455 - 473 Â°F English	Comments
Nozzle Temperature	235 - 249 Â°C	455 - 480 Â°F	
Melt Temperature	235 - 249 Â°C	455 - 480 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	
Back Pressure	0.172 - 0.345 MPa	25.0 - 50.0 psi	
Shot Size	30 - 80 %	30 - 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	Slow to Medium	

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