

LG Chemical Lupox[®] PBT-GP-2306FA 30% GFR Flame Retardant, UV Stabilized PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Fiber Filled, 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-GP-2306FA-30-GFR-Flame-Retardant-UV-Stabilized-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, Ultimate	124.1 MPa @Thickness 3.17 mm	18000 psi @Thickness 0.125 in	ASTM D638
Tensile Strength, Yield	70.3 MPa	10200 psi	ASTM D638
Elongation at Break	7.0 %	7.0 %	ASTM D638
Flexural Yield Strength	70.3 MPa	10200 psi	ASTM D570
Flexural Modulus	1.86 GPa	270 ksi	ASTM D570
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Â°C	208 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	230 - 245 Â°C	446 - 473 Â°F	
Middle Barrel Temperature	235 - 250 Â°C	455 - 482 Â°F	
Front Barrel Temperature	240 - 250 Â°C	464 - 482 Â°F	
Nozzle Temperature	240 - 260 Â°C	464 - 500 Â°F	

Processing Properties	Metric ⁶⁰ Â°C	English ¹⁰ Â°F	Comments
Mold Temperature	50.0 - 100 Â°C	122 - 212 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	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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