

LG Chemical LUMILOY GN1306F Injection Molding FR Heat Resistant mPPO

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, Molded

Material Notes:

Uses include electric/electronic parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMILOY-GN1306F-Injection-Molding-FR-Heat-Resistant-mPPO.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ASTM D792
Water Absorption	0.3 % @Time 86400 sec	0.3 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.006 - 0.008 cm/cm @Thickness 3.00 mm	0.006 - 0.008 in/in @Thickness 0.118 in	ASTM D955
	0.007 - 0.009 cm/cm @Thickness 2.00 mm	0.007 - 0.009 in/in @Thickness 0.0787 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.007 - 0.009 cm/cm @Thickness 3.00 mm	0.007 - 0.009 in/in @Thickness 0.118 in	ASTM D955
	0.008 - 0.010 cm/cm @Thickness 2.00 mm	0.008 - 0.010 in/in @Thickness 0.0787 in	ASTM D955
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 280 Â°C	8.0 g/10 min @Load 11.0 lb, Temperature 536 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	71.6 MPa @Thickness 3.20 mm	10400 psi @Thickness 0.126 in	ASTM D638
Elongation at Break	20 % @Thickness 3.17 mm	20 % @Thickness 0.125 in	ASTM D638
Flexural Strength	117 MPa @Thickness 3.20 mm	17000 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	2.45 GPa @Thickness 3.20 mm	356 ksi @Thickness 0.126 in	ASTM D790
	0.785 J/cm	1.47 ft-lb/in	

Izod Impact Notched Mechanical Properties		Metric	English	Comments
		@Thickness 3.20 mm, Temperature -40.0 Â°C	@Thickness 0.126 in, Temperature -40.0 Â°F	
		0.981 J/cm	1.84 ft-lb/in	
		@Thickness 3.20 mm, Temperature -30.0 Â°C	@Thickness 0.126 in, Temperature -22.0 Â°F	
		1.96 J/cm	3.67 ft-lb/in	
		@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	135 Â°C @Thickness 3.20 mm	275 Â°F @Thickness 0.126 in	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	V-0 - 5VA @Thickness 2.00 mm	V-0 - 5VA @Thickness 0.0787 in	
	V-0 - 5VA @Thickness 3.00 mm	V-0 - 5VA @Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 280 Â°C	482 - 536 Â°F	
Middle Barrel Temperature	260 - 290 Â°C	500 - 554 Â°F	
Front Barrel Temperature	260 - 300 Â°C	500 - 572 Â°F	
Nozzle Temperature	260 - 300 Â°C	500 - 572 Â°F	
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	90 - 100 Â°C	190 - 212 Â°F	
Dry Time	3 - 4 hour	3 - 4 hour	
Moisture Content	>= 0.01 %	>= 0.01 %	

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