



Lumiloy® GN1106FJ

LG Chem Ltd. - Polyphenylene Ether

Saturday, July 20, 2019

General Information

Product Description

Description

General Purpose, High Flow, Flame Retardant

Application

Electric and Electronic parts

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Features	• Flame Retardant	• General Purpose	• High Flow
Uses	• Electrical/Electronic Applications • General Purpose		
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.09	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, Injection Molded)	0.50 to 0.70	%	Internal Method
Molding Shrinkage - Across Flow (23°C, Injection Molded)	0.60 to 0.80	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	47.1	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	25	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	2750	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	93.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	86.0	°C	
RTI Elec	65.0	°C	UL 746
RTI Imp	65.0	°C	UL 746
RTI Str	65.0	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm	V-1		
3.0 mm	V-1		

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	60 to 70	°C
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	230 to 250	°C
Middle Temperature	240 to 270	°C
Front Temperature	240 to 270	°C
Nozzle Temperature	230 to 260	°C
Processing (Melt) Temp	230 to 270	°C
Mold Temperature	50 to 80	°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² 50 mm/min

³ 10 mm/min