



Lumiloy® GN4356F

LG Chem Ltd. - Polyphenylene Ether + PS

Saturday, July 20, 2019

General Information

Product Description

Injection Molding Grade, Flame Retardent mPPO

Description

High Strength & Modulus, GF & Mineral 35% Reinforced, High Flow

Application

Electric and Electronic Parts

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass/Mineral, 35% Filler by Weight
Features	• High Flow • High Strength
Uses	• Electrical/Electronic Applications
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.37	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
280°C/5.0 kg	19	g/10 min	
300°C/5.0 kg	46	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.20 mm)	108	MPa	ASTM D638
Tensile Strength ² (Break, 3.20 mm)	108	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm)	6.0	%	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	6.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	8730	MPa	ASTM D790
Flexural Strength ³ (Break, 3.20 mm)	157	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	69	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	350	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 6.40 mm	121	°C	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.6 mm	V-1		
3.2 mm	V-0		

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	90 to 100	°C
Drying Time	4.0 to 5.0	hr
Suggested Max Moisture	> 0.030	%
Rear Temperature	270 to 310	°C
Middle Temperature	280 to 310	°C
Front Temperature	280 to 310	°C
Nozzle Temperature	270 to 310	°C
Processing (Melt) Temp	260 to 290	°C
Mold Temperature	80 to 110	°C

Notes

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

² 5.0 mm/min

³ 1.3 mm/min