Lumiloy® GN2101F

Polyphenylene Ether + PS

LG Chem Ltd.

Message:

Injection Molding Grade, Flame Retardent mPPO
Description
High Strength & Modulus, GF 10% Reinforcement, High Impact Strenght
Application
Electric and Electronic Parts

General Information			
UL YellowCard	E67171-101939164		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	High Impact Resistance High Strength		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.14	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 2.00 mm	0.20 to 0.50	%	
Flow : 3.00 mm	0.30 to 0.50	%	
Across Flow : 2.00 mm	0.70 to 0.90	%	
Across Flow : 3.00 mm	0.60 to 0.80	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, 3.20 mm)	78.5	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	5.0	%	ASTM D638
Flexural Modulus [3] (3.20 mm)	3730	MPa	ASTM D790
Flexural Strength [4] (Break, 3.20 mm)	127	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm)	120	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	490	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	127	°C	ASTM D648
Flammability	**Nominal Value**		**Test Method**
Flame Rating (1.60 mm)	V-1		Internal Method
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0 to 110	°C	
Drying Time	5.0 to 6.0	hr	

Suggested Max Moisture	> 0.030	%
Rear Temperature	260 to 300	°C
Middle Temperature	270 to 310	°C
Front Temperature	270 to 310	°C
Nozzle Temperature	265 to 305	°C
Processing (Melt) Temp	280 to 320	°C
Mold Temperature	60.0 to 110	°C

NOTE	
1.	50 mm/min
2.	50 mm/min
3.	1.3 mm/min
4.	1.3 mm/min

Recommended distributors for this material

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