

Lumiloy® GN2206F

Polyphenylene Ether + PS

LG Chem Ltd.

Message:

Injection Molding Grade, Flame Retardent mPPO

Description

High Strength & Modulus, GF 20% Reinforcement

Application

Electric and Electronic Parts

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	High Strength		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 2.00 mm	0.20 to 0.30	%	
Flow : 3.00 mm	0.20 to 0.30	%	
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)	118	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	7.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	6080	MPa	ASTM D790
Flexural Strength ⁴ (Break, 3.20 mm)	162	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	88	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			ASTM D648
1.8 MPa, Unannealed, 3.20 mm	138	°C	
1.8 MPa, Unannealed, 6.40 mm	136	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 mm	V-1		
1.60 mm	V-1		

V-1

2.00 mm

5VA

V-0

3.20 mm

5VA

2.50 mm

5VA

Injection	Nominal Value	Unit
Drying Temperature	90.0 to 110	°C
Drying Time	5.0 to 6.0	hr
Suggested Max Moisture	> 0.030	%
Rear Temperature	270 to 310	°C
Middle Temperature	280 to 320	°C
Front Temperature	280 to 320	°C
Nozzle Temperature	270 to 310	°C
Processing (Melt) Temp	280 to 320	°C
Mold Temperature	70.0 to 110	°C

NOTE

- | | |
|----|------------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |

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