

Lumiloy® GP2100

Polyphenylene Ether + PS

LG Chem Ltd.

Message:

Injection Molding Grade, General Purpose

Description

GF 10% Reinforced, High Flow, High Impact Strength, Hydrolytic Stability

Application

Electric and Electronic Parts, Part for Water contact, Water Pump Housing or Impellers

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	General Purpose		
	High Flow		
	High Impact Resistance		
	Hydrolytically Stable		
Uses	Electrical/Electronic Applications		
	General Purpose		
	Pump Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 3.20 mm	0.30 to 0.50	%	
Across Flow : 3.20 mm	0.50 to 0.80	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	81.4	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	8.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3880	MPa	ASTM D790
Flexural Strength ⁴ (Break, 3.20 mm)	135	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	99	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	134	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	4.0 to 5.0	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	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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