

Lumiloy® GP2200

Polyphenylene Ether + PS

LG Chem Ltd.

Message:

Injection Molding Grade, General Purpose

Description

GF 20% Reinforced, NSF Certified for KA02 and E2035, 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,20% Filler by Weight		
Features	General Purpose		
	High Flow		
	High Impact Resistance		
	Hydrolytically Stable		
Uses	Electrical/Electronic Applications		
	General Purpose		
	Pump Parts		
Agency Ratings	NSF Unspecified Rating		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	9.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.50	%	Internal Method
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	95.1	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	7.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4900	MPa	ASTM D790
Flexural Strength ⁴ (Break, 3.20 mm)	137	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	140	°C	ASTM D648
Flammability	Nominal Value		Test Method

Flame Rating		UL 94
0.800 mm	HB	
1.60 mm	HB	
2.50 mm	HB	
3.20 mm	HB	
Injection	Nominal Value	Unit
Drying Temperature	80.0 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.	10 mm/min	
4.	10 mm/min	

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