

Lumiloy® GP2300

Polyphenylene Ether + PS

LG Chem Ltd.

Message:

Injection Molding Grade, General Purpose

Description

GF 30% Reinforced, NSF Certified for Black and Grey, 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,30% Filler by Weight		
Features	General Purpose		
	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	1.28	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.10 to 0.30	%	
Across Flow : 3.20 mm	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	127	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	6960	MPa	ASTM D790
Flexural Strength ⁴ (Break, 3.20 mm)	177	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	135	°C	ASTM D648
Vicat Softening Temperature	148	°C	ASTM D1525 ⁵
CLTE			ASTM D696
Flow : -30 to 130°C	1.7E-5	cm/cm/°C	
Transverse : -30 to 130°C	7.0E-5	cm/cm/°C	

RTI Elec	65.0	°C	UL 746
RTI Imp	65.0	°C	UL 746
RTI Str	65.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+11	ohms·cm	ASTM D257
Dielectric Strength (23°C)	36	kV/mm	ASTM D149
Comparative Tracking Index	4.00	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.50 mm	HB		
3.00 mm	HB		
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.	10 mm/min		
4.	10 mm/min		
5.	Rate B (120°C/h), Loading 1 (10 N)		

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