

General Information
Product Description

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

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	<ul style="list-style-type: none"> • General Purpose • High Flow • High Impact Resistance • Hydrolytically Stable
Uses	<ul style="list-style-type: none"> • Electrical/Electronic Applications • General Purpose • Housings • Pump Parts
Processing Method	• Injection Molding

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.12	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.30 to 0.50	%	ASTM D955
Molding Shrinkage - Across Flow (23°C, 3.20 mm, Injection Molded)	0.50 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	81.4	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	5.0	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	3960	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	157	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.20 mm, Injection Molded	136	°C	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	90 to 100	°C
Drying Time	4.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	260 to 300	°C
Middle Temperature	270 to 310	°C

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Lumiloy® GP2100

LG Chem Ltd. - Polyphenylene Ether + PS

Injection	Nominal Value	Unit
Front Temperature	270 to 310	°C
Nozzle Temperature	270 to 310	°C
Processing (Melt) Temp	280 to 320	°C
Mold Temperature	70 to 110	°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² 50 mm/min

³ 1.3 mm/min