

General Information
Product Description

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

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• General Purpose • High Flow • High Impact Resistance • Hydrolytically Stable
Uses	• Electrical/Electronic Applications • General Purpose • Housings • Pump Parts
Agency Ratings	• NSF Unspecified Rating
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, Injection Molded)	0.20 to 0.50	%	Internal Method
Water Absorption (24 hr, 23°C)	0.060	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	108	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	7.0	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	5100	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	147	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	110	J/m	ASTM D256
Unnotched Izod Impact 23°C, 3.20 mm, Injection Molded	450	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale, 23°C, Injection Molded)	112		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 6.40 mm, Injection Molded	130	°C	ASTM D648

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Lumiloy® GP2200

LG Chem Ltd. - Polyphenylene Ether + PS

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.8 mm		HB	
1.6 mm		HB	
2.5 mm		HB	
3.2 mm		HB	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 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
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 10 mm/min