

General Information
Product Description

Injection Molding Grade, Flame Retardant mPPE

Description

 High Strength & Modulus, GF reinforced
 High Impact Strength

Application

Electric and Electronic parts

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Filler / Reinforcement	• Glass Fiber		
Additive	• Flame Retardant		
Features	• Flame Retardant	• High Impact Resistance	• High Strength
Uses	• Electrical Parts	• Electrical/Electronic Applications	
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage ²			ISO 294-4
Across Flow : 23°C, 2.00 mm	0.40 to 0.60	%	
Flow : 23°C, 2.00 mm	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	88.3	MPa	
Tensile Elongation ³			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	3.0	%	
Flexural Modulus ⁴ (23°C, 3.20 mm, Injection Molded)	4220	MPa	ASTM D790
Flexural Strength ⁴ (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)	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	130	°C	
RTI Elec	65.0	°C	UL 746
RTI Imp	65.0	°C	UL 746
RTI Str	65.0	°C	UL 746

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Lumiloy® GN2101F
LG Chem Ltd. - Polyphenylene Ether

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.6 mm		V-1	
2.5 mm		5VA	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 110	°C
Drying Time	4.0 to 6.0	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	265 to 305	°C
Processing (Melt) Temp	280 to 320	°C
Mold Temperature	60 to 110	°C

Notes

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

² Injection Molded

³ 50 mm/min

⁴ 1.3 mm/min