



# Lumiloy® GN2206F

LG Chem Ltd. - Polyphenylene Ether + PS

Friday, May 24, 2019

## General Information

### Product Description

Injection Molding Grade, Flame Retardent mPPE

#### Description

High Strength & Modulus, GF 20% Reinforcement

#### Application

Electric and Electronic Parts

### General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • High Strength
Uses	• Electrical/Electronic Applications
Processing Method	• Injection Molding

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	118	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	2.0	%	
Flexural Modulus <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	6080	MPa	ASTM D790
Flexural Strength <sup>3</sup> (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)	78	J/m	ASTM D256
Unnotched Izod Impact			ASTM D256
23°C, 3.20 mm, Injection Molded	490	J/m	
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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Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.8 mm		V-1	
1.6 mm		V-1	
2.0 mm	•	V-1	
	•	5VA	

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	90 to 110	°C
Drying Time	5.0 to 6.0	hr
Rear Temperature	270 to 310	°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**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 50 mm/min

<sup>3</sup> 1.3 mm/min