

General Information
Product Description

Description

 Halogen Free Flame Retardant, Heat Resistant
 Chemical Resistance, High Impact

Application

IT/OA Housing and Components (Adaptor)

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Additive	• Flame Retardant		
Features	• Chemical Resistant • Flame Retardant	• Good Heat Resistance • Halogen Free	• High Impact Resistance
Uses	• Housings		
Processing Method	• Injection Molding		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - 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	61.8	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	100	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	2160	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	96.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm, Injection Molded	120	J/m	
23°C, 3.20 mm, Injection Molded	740	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	123	°C	
Vicat Softening Temperature	135	°C	ASTM D1525 ⁴
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	80.0	°C	UL 746

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

Lupoy® GN1002FH
LG Chem Ltd. - Polycarbonate

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm		V-0	
2.0 mm	•	V-0	
	•	5VB	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	90 to 100	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	270 to 285	°C
Middle Temperature	275 to 290	°C
Front Temperature	275 to 290	°C
Nozzle Temperature	270 to 285	°C
Processing (Melt) Temp	275 to 290	°C
Mold Temperature	80 to 100	°C
Back Pressure	1.96	MPa
Screw Speed	40 to 80	rpm

Notes

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

² 50 mm/min

³ 10 mm/min

⁴ Rate B (120°C/h), Loading 2 (50 N)