

General Information
Product Description

Description
Halogen Free Flame Retardant, High Flow, High Impact

Application
E&E(OA, Navigation Housing)

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Additive	• Flame Retardant	
Features	• Flame Retardant • Halogen Free	• High Flow • High Impact Resistance
Uses	• Electrical/Electronic Applications • Housings	
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) (250°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	58.8	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	50	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	2450	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	84.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	340	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	113		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm, Injection Molded	88.0	°C	
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
2.5 mm	V-0		
3.0 mm	V-0		

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Lupoy® GN5008HF
LG Chem Ltd. - Polycarbonate + ABS

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	75 to 85	°C
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	220 to 240	°C
Middle Temperature	235 to 255	°C
Front Temperature	250 to 265	°C
Nozzle Temperature	250 to 265	°C
Processing (Melt) Temp	235 to 265	°C
Mold Temperature	50 to 80	°C
Back Pressure	0.0196 to 0.0588	MPa
Screw Speed	40 to 70	rpm

Notes

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

² 50 mm/min

³ 10 mm/min