

General Information
Product Description

Description
General Purpose, High Stiffness, Halogen Free Flame Retardent

Application
E&E(Housing), IT/OA(Notebook PC Housing)

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Mineral, 15% Filler by Weight
Features	• Flame Retardant • General Purpose • Halogen Free • High Stiffness
Uses	• Electrical Housing • Electrical/Electronic Applications
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.25	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.20 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	60.8	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	15	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	4120	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm, Injection Molded	95.0	°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 (1.0 mm)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	75 to 85	°C
Drying Time	3.0 to 4.0	hr

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Lupoy® GN5151RF

LG Chem Ltd. - Polycarbonate + ABS

Injection	Nominal Value	Unit
Suggested Max Moisture	0.020	%
Rear Temperature	230 to 250	°C
Middle Temperature	245 to 265	°C
Front Temperature	260 to 275	°C
Nozzle Temperature	260 to 275	°C
Processing (Melt) Temp	245 to 275	°C
Mold Temperature	60 to 80	°C
Back Pressure	0.981 to 1.96	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