

General Information
Product Description

Description

Halogen Free Flame Retardant, High Flow.

Application

IT/OA(Housing)

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Features	• Flame Retardant	• Halogen Free	• High Flow
Uses	• Electrical/Electronic Applications		
Processing Method	• Injection Molding		

ASTM & ISO Properties¹

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)	21	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.20 mm)	54.9	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 50	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	2650	MPa	ASTM D790
Flexural Strength ³ (Yield, 6.40 mm)	87.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	290	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴ 0.45 MPa, Unannealed, 6.40 mm	85.0	°C	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm		V-1	
2.0 mm	•	V-0	
	•	5VB	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	60 to 80	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	< 0.020	%
Rear Temperature	210 to 240	°C
Middle Temperature	215 to 250	°C
Front Temperature	225 to 260	°C

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Lupoy® GN5009F

LG Chem Ltd. - Polycarbonate + ABS

Injection	Nominal Value	Unit
Nozzle Temperature	220 to 250	°C
Processing (Melt) Temp	230 to 260	°C
Mold Temperature	50 to 70	°C
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

⁴ 4.6kg