

Lupoy® GN5001RFD

Polycarbonate + ABS

LG Chem Ltd.

Message:

Description

General Purpose, High Impact, Halogen Free Flame Retardant

Application

IT/OA(Notebook PC Housing)

General Information			
UL YellowCard	E302314-530039	E67171-248445	E353371-101107241
Features	Flame Retardant		
	General Purpose		
	Halogen Free		
	High Impact Resistance		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	61.3	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 60	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2600	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	95.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	92.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°C	ASTM D1525 ⁵
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			
0.850 mm	V-2		UL 94
1.00 mm	V-0		UL 94
1.00 mm, ALL	V-0		IEC 60695-11-10, -20

0.850 mm, ALL	V-2	IEC 60695-11-10, -20
Injection	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	220 to 255	°C
Middle Temperature	220 to 275	°C
Front Temperature	245 to 275	°C
Nozzle Temperature	245 to 275	°C
Processing (Melt) Temp	245 to 275	°C
Mold Temperature	60.0 to 80.0	°C
Back Pressure	0.981 to 1.96	MPa
Screw Speed	40 to 70	rpm
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	10 mm/min	
4.	10 mm/min	
5.	Rate A (50°C/h), Loading 2 (50 N)	

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