

Lupoy® GN1002FH

Polycarbonate

LG Chem Ltd.

Message:

Description

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

Application

IT/OA Housing and Components (Adaptor)

General Information			
UL YellowCard	E302314-530024	E248280-101511247	
Features	Flame Retardant		
	Good Chemical Resistance		
	Halogen Free		
	High Heat Resistance		
	High Impact Resistance		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
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 (3.20 mm)	0.50 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	61.8	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	100	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2450	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	96.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	120	J/m	
23°C, 3.20 mm	740	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵ (0.45 MPa, Unannealed, 6.40 mm)	121	°C	ASTM D648
Vicat Softening Temperature	135	°C	ASTM D1525 ⁶
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	80.0	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	

1.50 mm	V-0	
	V-0	
2.00 mm	5VB	
Injection	Nominal Value	Unit
Drying Temperature	90.0 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	80.0 to 100	°C
Back Pressure	1.96	MPa
Screw Speed	40 to 80	rpm
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	10 mm/min	
4.	10 mm/min	
5.	18.6kg	
6.	Rate B (120°C/h), Loading 2 (50 N)	

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