

Lupoy® GN5001EF

Polycarbonate + ABS

LG Chem Ltd.

Message:

Description

Halogen Free Flame Retardent

Applications

Industrial / IT product

General Information			
UL YellowCard	E67171-502506	E353371-101107274	
Features	Flame Retardant		
	Halogen Free		
Uses	Industrial Applications		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	6.2	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	65.7	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	80	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2450	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	98.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	760	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	108	°C	ASTM D648
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			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	85.0 to 95.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	

Rear Temperature	240 to 265	°C
Middle Temperature	250 to 270	°C
Front Temperature	255 to 275	°C
Nozzle Temperature	260 to 280	°C
Processing (Melt) Temp	260 to 280	°C
Mold Temperature	70.0 to 90.0	°C
Back Pressure	0.0196 to 0.0588	MPa
Screw Speed	40 to 70	rpm

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 10 mm/min |
| 4. | 10 mm/min |

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