

Lupoy® GN5001SF

Polycarbonate + ABS

LG Chem Ltd.

Message:

LUPOY GN-5001SF flame resistant resin, rated UL 94 V-0 at 1.5mm and 5VB at 2.1mm, exhibits excellent flow, weather resistance together with low gas. This resin does not contain halogenated and chlorinated compounds. Typical application includes business equipment enclosures where high flame resistance and weather resistance are required.

General Information			
UL YellowCard	E302314-530040	E67171-248446	E353371-101107242
Features	Flame Retardant		
	Good Flow		
	Halogen Free		
UL File Number	E67171		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Molding Shrinkage - Flow (Injection Molded)	0.40 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	57.0	MPa	ASTM D638
Tensile Elongation ² (Break, Injection Molded)	50	%	ASTM D638
Flexural Modulus ³ (Injection Molded)	2450	MPa	ASTM D790
Flexural Strength ⁴ (Yield)	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm, Injection Molded)	350	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	88.0	°C	ASTM D1525
RTI Elec			UL 746
1.50 mm	60.0	°C	
2.10 mm	60.0	°C	
RTI Imp			UL 746
1.50 mm	60.0	°C	
2.10 mm	60.0	°C	
RTI Str			UL 746

1.50 mm	60.0	°C
2.10 mm	60.0	°C
Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.50 mm, ALL	V-0	
	V-0	
2.10 mm, ALL	5VB	
Injection	Nominal Value	Unit
Drying Temperature	60.0 to 79.4	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	199 to 229	°C
Middle Temperature	210 to 241	°C
Front Temperature	221 to 249	°C
Nozzle Temperature	221 to 249	°C
Melt Temperature (Aim)	229	°C
Mold Temperature	51.7 to 79.4	°C
Screw Speed	40 to 70	rpm
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	2.8 mm/min	
4.	2.8 mm/min	

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