

Lupoy® GN5001RFP

Polycarbonate + ABS

LG Chem Ltd.

Message:

Lupoy® GN5001RFP is a Polycarbonate + ABS (PC+ABS) material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Lupoy® GN5001RFP are:

Flame Rated

Flame Retardant

Halogen Free

Heat Resistant

Typical applications include:

Electrical/Electronic Applications

Housings

General Information			
UL YellowCard	E67171-248471		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Medium Heat Resistance		
Uses	Electrical Housing		
	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)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	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)	2750	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	98.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	110	°C	ASTM D648
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	85.0	°C	UL 746

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.20 mm	V-0	
2.50 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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