

Lupol® GP1007F

Polypropylene

LG Chem Ltd.

Message:

Lupol® GP1007F is a Polypropylene material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Lupol® GP1007F are:

Flame Rated

Flame Retardant

Typical applications include:

Automotive

Electrical/Electronic Applications

General Information			
UL YellowCard	E248280-322203	E302314-530064	E67171-248638
Features	Flame Retardant		
	General Purpose		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.6 to 1.8	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	29.4	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	100	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	1570	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	36.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁵ (23°C)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.20 mm)	120	°C	ASTM D648
RTI Elec	120	°C	UL 746
RTI Imp	120	°C	UL 746
RTI Str	120	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating (0.750 mm)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	

Drying Time	3.0 to 4.0	hr
Minimum Moisture Content	0.010	%
Rear Temperature	190 to 210	°C
Middle Temperature	200 to 230	°C
Front Temperature	200 to 230	°C
Nozzle Temperature	210 to 230	°C
Processing (Melt) Temp	200 to 230	°C
Mold Temperature	40.0 to 60.0	°C
Back Pressure	29.4 to 58.8	MPa
Screw Speed	30 to 60	rpm

NOTE

1. 50 mm/min
2. 50 mm/min
3. 10 mm/min
4. 10 mm/min
5. 6.4 mm Notch Depth

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