

Lupol® GP3102

Polypropylene

LG Chem Ltd.

Message:

Lupol® GP3102 is a Polypropylene material filled with 10% mineral. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of Lupol® GP3102: Impact Resistant.

Typical applications include:

Automotive

Electrical/Electronic Applications

General Information			
UL YellowCard	E248280-533911	E302314-530058	E67171-248660
Filler / Reinforcement	Mineral, 10% Filler by Weight		
Features	General Purpose		
	High Impact Resistance		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.998	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.90 to 1.4	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	28.4	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	80	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	1570	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	35.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.20 mm)	130	°C	ASTM D648
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.	5.0 mm/min
2.	5.0 mm/min
3.	1.3 mm/min
4.	1.3 mm/min

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