

Lupol® GP3202

Polypropylene

LG Chem Ltd.

Message:

LUPOL GP-3202 is designed for injection molding of large parts by reinforced with mineral filler. This product features excellent dimensional stability and low warpage characteristics, thus ideal for interior materials of automobiles, and electric/electronic parts.

General Information			
UL YellowCard	E67171-248657	E248280-533910	
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Additive	Impact modifier		
Features	Good dimensional stability		
	Impact modification		
	Low warpage		
	Impact resistance, good		
	General		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Application in Automobile Field		
	Car interior parts		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.90 - 1.3	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	28.4	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2260	MPa	ASTM D790
Flexural Strength (Yield)	40.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	137	°C	ASTM D648

1.8 MPa, not annealed	86.0	°C	ASTM D648
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 100	°C	
Drying Time	3.0 - 4.0	hr	
Hopper Temperature	50.0 - 57.0	°C	
Rear Temperature	190 - 210	°C	
Middle Temperature	207 - 222	°C	
Front Temperature	211 - 228	°C	
Nozzle Temperature	205 - 220	°C	
Mold Temperature	50.0 - 57.0	°C	
Injection Pressure	2.94 - 11.8	MPa	
Injection Rate	Fast		
Back Pressure	1.47 - 5.88	MPa	
Screw Speed	40 - 60	rpm	
Injection instructions			

Secondary Injection Pressure: 20 to 100 kg/cm²

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