

Lupoy® GP5300

Polycarbonate + ABS

LG Chem Ltd.

Message:

Lupoy®GP5300 is a polycarbonate + acrylonitrile butadiene styrene (PC + ABS) material, and its filler is 30% glass fiber reinforced material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

Typical application areas include:

House

Automotive Industry

General Information			
UL YellowCard	E67171-101631978		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	General		
Uses	General		
	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	1.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.10 - 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 3.20 mm)	111	MPa	ASTM D638
Tensile Elongation (Break, 3.20 mm)	1.5	%	ASTM D638
Flexural Modulus ¹ (3.20 mm)	7550	MPa	ASTM D790
Flexural Strength ² (3.20 mm)	167	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	117	°C	ASTM D648
Additional Information			
All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23°C, 50% relative humidity.			
Injection	Nominal Value	Unit	
Drying Temperature	75.0 - 85.0	°C	
Drying Time	3.0 - 5.0	hr	
Minimum Moisture Content	0.020	%	
Rear Temperature	220 - 240	°C	
Middle Temperature	235 - 255	°C	

Front Temperature	250 - 265	°C
Nozzle Temperature	250 - 265	°C
Processing (Melt) Temp	235 - 265	°C
Mold Temperature	50.0 - 80.0	°C
Back Pressure	0.0196 - 0.0588	MPa
Screw Speed	40 - 70	rpm

NOTE

1. 1.3 mm/min
2. 1.3 mm/min

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