Lupoy® GP5100

Polycarbonate + ABS

LG Chem Ltd.

Message:

Lupoy® GP5100 is a Polycarbonate + ABS (PC+ABS) material filled with 10% glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.
Typical applications include:
Automotive
Electrical/Electronic Applications
Housings

General Information			
UL YellowCard	E67171-248451	E248280-322217	
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	General Purpose		
Uses	Automotive Instrument Panel Electrical Housing Electrical/Electronic Applications General Purpose		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.16 to 1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.40	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, 3.20 mm)	88.3	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	6.0	%	ASTM D638
Flexural Modulus [3] (3.20 mm)	49000	MPa	ASTM D790
Flexural Strength [4] (3.20 mm)	137	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm)	98	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	121	°C	ASTM D648
Injection	**Nominal Value**	**Unit**	
Drying Temperature	85.0 to 95.0	°C	
Drying Time	3.0 to 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	220 to 240	°C	
Middle Temperature	235 to 255	°C	

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

NOTE	
1.	5.0 mm/min
2.	5.0 mm/min
3.	1.3 mm/min
4.	1.3 mm/min

Recommended distributors for this material

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