

Lupoy® GP5200

Polycarbonate + ABS

LG Chem Ltd.

Message:

Lupoy®GP5200 is a polycarbonate + acrylonitrile butadiene styrene (PC + ABS) material, and its filler is 20% 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	E67171-248451	E248280-322217	
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	General		
Uses	General Shell		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm, Injection Molded)	0.10 - 0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	93.2	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm, Injection Molded)	2.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm, Injection Molded)	5300	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm, Injection Molded)	137	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, unannealed, 6.40mm, injection molding)	115	°C	ASTM D648
Injection	Nominal Value	Unit	Test Method
Drying Temperature	75.0 - 85.0	°C	

Drying Time	3.0 - 5.0	hr
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
Back Pressure	0.0196 - 0.0588	MPa
Screw Speed	40 - 70	rpm

Injection instructions

Minimum Moisture Content: 0.02%

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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