

Lumax® GP5200B

Acrylonitrile Butadiene Styrene + PBT

LG Chem Ltd.

Message:

Description
General Purpose
Application
E&E(Speaker Frame)

General Information			
Features	General Purpose		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Specific Heat vs. Temperature (ISO 11403-2)		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.90	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	93.2	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	2.5	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	5590	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	134	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	59	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	160	°C	ASTM D648
Peak Melting Temperature	223	°C	ASTM D3418

Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	4.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	225 to 235	°C
Middle Temperature	230 to 245	°C
Front Temperature	240 to 250	°C
Nozzle Temperature	240 to 250	°C

Processing (Melt) Temp	240 to 250	°C
Mold Temperature	40.0 to 80.0	°C
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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