

Lumid® GP2200B(W)

Polyamide 66

LG Chem Ltd.

Message:

Description

General Purpose

Applications

Automotive Parts

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	General		
Uses	Application in Automobile Field		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.60 - 1.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 6.40 mm)	157	MPa	ASTM D638
Tensile Elongation ² (Break, 6.40 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	6860	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 6.40 mm)	221	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	260	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	245	°C	ASTM D648
Peak Melting Temperature	260	°C	ASTM D3418
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
RTI Elec			UL 746
0.750 mm	120	°C	UL 746
1.50 mm	110	°C	UL 746
3.00 mm	120	°C	UL 746
RTI Imp			UL 746
0.750 mm	120	°C	UL 746
1.50 mm	110	°C	UL 746
3.00 mm	120	°C	UL 746

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3.00 mm	120	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	25	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 MHz)	4.00		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	HB		UL 94
1.50 mm	HB		UL 94
3.00 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 100	°C	
Drying Time	4.0 - 5.0	hr	
Rear Temperature	265 - 275	°C	
Middle Temperature	270 - 280	°C	
Front Temperature	270 - 285	°C	
Nozzle Temperature	270 - 280	°C	
Processing (Melt) Temp	270 - 290	°C	
Mold Temperature	80.0 - 110	°C	
Back Pressure	29.4 - 58.8	MPa	
Screw Speed	30 - 60	rpm	
Injection instructions			
Minimum Moisture Content: 0.09%			
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	3.0 mm/min		
4.	3.0 mm/min		

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