

Lumid® GP2130A(W)

Polyamide 6
LG Chem Ltd.

Message:

Description
General Purpose
Applications
Automotive Parts

General Information			
Filler / Reinforcement	Glass Fiber,13% Filler by Weight		
Features	General Purpose		
Uses	Automotive Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C, 3.20 mm)	0.70 to 1.2	%	ASTM D955
Water Absorption (Equilibrium)	1.3	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	118	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	7.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4410	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	167	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	44	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	190	°C	ASTM D648
Peak Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	5.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	20	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 MHz)	3.80		ASTM D150
Arc Resistance ⁵	160	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	4.0 to 5.0	hr	
Suggested Max Moisture	0.12	%	

Rear Temperature	235 to 255	°C
Middle Temperature	240 to 270	°C
Front Temperature	240 to 270	°C
Nozzle Temperature	250 to 280	°C
Processing (Melt) Temp	250 to 280	°C
Mold Temperature	80.0 to 100	°C
Back Pressure ⁶	0.981 to 2.94	MPa
Screw Speed	60 to 150	rpm

NOTE

- | | |
|----|----------------|
| 1. | 5.0 mm/min |
| 2. | 5.0 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |
| 5. | 23°C |
| 6. | Hydraulic Type |

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