

Lumid® GP3300A(W)

Polyamide 6

LG Chem Ltd.

Message:

Lumid® GP3300A(W) is a Polyamide 6 (Nylon 6) material filled with 30% mineral. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of Lumid® GP3300A(W): Flame Rated.

Typical application of Lumid® GP3300A(W): Automotive

General Information			
Filler / Reinforcement	Mineral,30% Filler by Weight		
Features	General Purpose		
Uses	Automotive Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.60 to 1.0	%	ASTM D955
Water Absorption (Equilibrium)	1.1	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	78.5	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	55000	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	123	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	210	°C	
1.8 MPa, Unannealed, 6.40 mm	160	°C	
Peak Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	5.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+17	ohms · cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	22	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 MHz)	4.00		ASTM D150
Arc Resistance ⁵	185	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
Rear Temperature	250 to 270	°C
Middle Temperature	255 to 275	°C
Front Temperature	255 to 275	°C
Nozzle Temperature	260 to 280	°C
Processing (Melt) Temp	260 to 280	°C
Mold Temperature	60.0 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	
5.	23°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

