Lumid® GP3200A(W)

Polyamide 6

LG Chem Ltd.

Message:

Lumid® GP3200A(W) is a Polyamide 6 (Nylon 6) material filled with 20% mineral. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of Lumid® GP3200A(W): Flame Rated.
Typical applications include:
Appliances
Electrical/Electronic Applications
Housings

General Information			
UL YellowCard	E248280-100040911		
Filler / Reinforcement	Mineral,20% Filler by Weight		
Features	General Purpose		
Uses	Appliances Electrical/Electronic Applications Housings		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.28	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.80 to 1.2	%	ASTM D955
Water Absorption (Equilibrium)	1.2	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, 3.20 mm)	73.5	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	5.0	%	ASTM D638
Flexural Modulus [3] (3.20 mm)	4310	MPa	ASTM D790
Flexural Strength [4] (Yield, 3.20 mm)	113	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	130	°C	
Peak Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	5.6E-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	230 to 255	°C	
Middle Temperature	245 to 260	°C	
Front Temperature	245 to 270	°C	
Nozzle Temperature	250 to 270	°C	
Processing (Melt) Temp	250 to 270	°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		

Recommended distributors for this material

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