

Lumid® GP1100A(W)

Polyamide 6
LG Chem Ltd.

Message:

Description
Low Viscosity
Applications
Industrial Material, Sport Parts

General Information			
UL YellowCard	E248280-100040914	E67171-597439	
Features	Low Viscosity		
Uses	Industrial Applications		
	Sporting Goods		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm³	ASTM D792
Molding Shrinkage - Flow (23°C, 3.20 mm)	1.0 to 1.4	%	ASTM D955
Water Absorption (Equilibrium)	1.7	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		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)	100	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	2750	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 6.40 mm)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 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	170	°C	
1.8 MPa, Unannealed, 6.40 mm	60.0	°C	
Peak Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	8.0E-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)	19	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 MHz)	3.00		ASTM D150
Arc Resistance ⁵	195	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method

Flame Rating		UL 94
1.50 mm, ALL	V-2	
3.00 mm, ALL	V-2	
Injection	Nominal Value	Unit
Drying Temperature	80.0 to 100	°C
Drying Time	4.0 to 5.0	hr
Rear Temperature	225 to 245	°C
Middle Temperature	230 to 260	°C
Front Temperature	240 to 270	°C
Nozzle Temperature	240 to 270	°C
Processing (Melt) Temp	240 to 270	°C
Mold Temperature	60.0 to 80.0	°C
Back Pressure ⁶	0.490 to 1.96	MPa
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	2.8 mm/min	
4.	2.8 mm/min	
5.	23°C	
6.	Hydraulic Type	

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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

