

Lupox® GP1000A

Polybutylene Terephthalate

LG Chem Ltd.

Message:

Lupox®GP1000A is a polybutene terephthalate (PBT) material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding. Lupox®The main characteristics of the GP1000A are: flame retardant/rated flame.

Lupox®The typical application fields of GP1000A are: automobile industry

General Information			
UL YellowCard	E248280-533890	E67171-248566	
Features	General		
Uses	Application in Automobile Field		
	General		
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)	1.8	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	58.8	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2630	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	89.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	36	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	170	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	61.0	°C	ASTM D648
Peak Melting Temperature	225	°C	ASTM D3418
RTI Elec	140	°C	UL 746
RTI Imp	130	°C	UL 746
RTI	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	23	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.710 mm	HB		UL 94
1.50 mm	HB		UL 94

3.30 mm	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	100 - 120	°C
Drying Time	3.0 - 5.0	hr
Rear Temperature	245 - 255	°C
Middle Temperature	245 - 260	°C
Front Temperature	245 - 260	°C
Nozzle Temperature	250 - 265	°C
Processing (Melt) Temp	225	°C
Mold Temperature	40.0 - 80.0	°C
Extrusion instructions		
Minimum Moisture Content: 0.02%		
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	2.8 mm/min	
4.	2.8 mm/min	

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