

Lupox® GP1000DU

Polybutylene Terephthalate

LG Chem Ltd.

Message:

Lupox®GP1000DU is a polybutene terephthalate (PBT) material. This product is available in North America, Latin America, Europe or Asia Pacific.

Lupox®The main characteristics of the GP1000DU are: flame retardant/rated flame.

General Information			
UL YellowCard	E67171-248566		
Features	General		
Uses	General		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	2.0 - 2.1	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	57.9	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	100	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2450	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	84.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	174	°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)	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

Injection 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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