

Lupox® GP2300G

Polybutylene Terephthalate

LG Chem Ltd.

Message:

- Description
- General Purpose
- Applications
- Automotive, E&E

General Information			
UL YellowCard	E302314-530018	E67171-248558	E353371-101107248
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Uses	Electrical/Electronic Applications		
	Home appliance components		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 - 0.80	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	91		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	123	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	7850	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	196	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	216	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	210	°C	ASTM D648
Peak Melting Temperature	223	°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+16	ohms · cm	ASTM D257

Dielectric Strength (23°C, 1.00 mm)	28	kV/mm	ASTM D149
Arc Resistance	5.00	sec	ASTM D495
Comparative Tracking Index (CTI) ⁵	PLC 0		UL 746
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	120	°C	
Drying Time	4.0 - 5.0	hr	
Rear Temperature	240 - 255	°C	
Middle Temperature	245 - 255	°C	
Front Temperature	250 - 260	°C	
Nozzle Temperature	250 - 260	°C	
Processing (Melt) Temp	250 - 260	°C	
Mold Temperature	60.0 - 100	°C	
Injection instructions			
Minimum Moisture Content: 0.02%			
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	Solution A		

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