

Lupox® GP2300

Polybutylene Terephthalate

LG Chem Ltd.

Message:

LUPOX GP-2300 is 30% glass reinforced grade which are made up of non-flame retarded grade .

General Information			
UL YellowCard	E302314-530018	E67171-248558	E353371-101107248
Features	Fatigue Resistant		
	General Purpose		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Electrical Properties		
	High Rigidity		
	High Strength		
Uses	Appliance Components		
	Appliances		
	Electrical/Electronic Applications		
	General Purpose		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Specific Heat vs. Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
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 to 0.80	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
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 (6.40 mm)	7850	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 6.40 mm)	196	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	69	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	216	°C	
1.8 MPa, Unannealed, 6.40 mm	210	°C	
Peak Melting Temperature	223	°C	ASTM D3418
RTI Elec	140	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (1.00 mm)	28	kV/mm	ASTM D149
Arc Resistance	PLC 5		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		
1.50 mm	HB		
3.30 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0 to 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	240 to 255	°C	
Middle Temperature	245 to 255	°C	
Front Temperature	250 to 260	°C	
Nozzle Temperature	250 to 260	°C	
Processing (Melt) Temp	250 to 260	°C	
Mold Temperature	60.0 to 100	°C	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	Solution A		

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