

Lupox® GP2100

Polybutylene Terephthalate

LG Chem Ltd.

Message:

Description
General Purpose
Applications
IT/OA, E&E, Automotive(Connector)

General Information			
UL YellowCard	E302314-530017	E248280-316938	E353371-101107246
Features	General Purpose		
Uses	Automotive Applications		
	Connectors		
	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	34	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.70 to 0.90	%	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)	76.5	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	4220	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 6.40 mm)	127	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	34	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	210	°C	
1.8 MPa, Unannealed, 6.40 mm	190	°C	
Peak Melting Temperature	223	°C	ASTM D3418
RTI Elec	140	°C	UL 746
RTI Imp	120	°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)	23	kV/mm	ASTM D149

Arc Resistance	PLC 5	ASTM D495
Comparative Tracking Index (CTI) ⁵	PLC 0	UL 746
Comparative Tracking Index (Solution A)	600	V IEC 60112
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	5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	235 to 250	°C
Middle Temperature	240 to 250	°C
Front Temperature	245 to 255	°C
Nozzle Temperature	245 to 255	°C
Processing (Melt) Temp	245 to 260	°C
Mold Temperature	60.0 to 100	°C
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	5.0 mm/min	
4.	5.0 mm/min	
5.	Solution A	

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