

Lupox® GP1000SB

Polybutylene Terephthalate

LG Chem Ltd.

Message:

Description
Anti-Hydrolysis
Applications
IT/OA, Automotive (Connector)

General Information			
UL YellowCard	E67171-248566		
Features	Hydrolysis Resistant		
Uses	Automotive Applications		
	Connectors		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	19	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.2 to 2.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	50.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 100	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2160	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	72.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	55	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	57.0	°C	ASTM D648
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+17	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	100 to 120	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	230 to 235	°C	
Middle Temperature	235 to 240	°C	
Front Temperature	240 to 245	°C	
Nozzle Temperature	240 to 250	°C	
Processing (Melt) Temp	240 to 250	°C	
Mold Temperature	40.0 to 80.0	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.8 mm/min		
4.	2.8 mm/min		
5.	Solution A		

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