

Lupox® GP1000D

Polybutylene Terephthalate

LG Chem Ltd.

Message:

Description
General Purpose
Application
Automotive(Head Lamp Bezel)

General Information			
UL YellowCard	E248280-533890	E67171-248566	
Features	General Purpose		
Uses	Automotive Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	37	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.7 to 1.9	%	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)	58.8	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	40	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2640	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	90.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	31	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm ⁵	170	°C	
0.45 MPa, Unannealed, 3.20 mm ⁶	61.0	°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 (23°C)	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	23	kV/mm	ASTM D149
Arc Resistance	PLC 5		ASTM D495
Comparative Tracking Index (CTI) ⁷	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method

Flame Rating		UL 94
0.700 mm	HB	
1.50 mm	HB	
3.30 mm	HB	
Injection	Nominal Value	Unit
Drying Temperature	100 to 120	°C
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	< 0.020	%
Rear Temperature	245 to 255	°C
Middle Temperature	245 to 260	°C
Front Temperature	245 to 260	°C
Nozzle Temperature	250 to 265	°C
Processing (Melt) Temp	245 to 260	°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.	4.6kg	
6.	18.6kg	
7.	Solution A	

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