

Lupox® GP2056F

Polybutylene Terephthalate

LG Chem Ltd.

Message:

Description
Flame Retardant, General Purpose
Applications
IT/OA, Automotive (Connector)

General Information			
UL YellowCard	E302314-530021	E67171-248570	E248280-322189
	E353371-101107256		
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	24	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 1.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	65.7	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3240	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	25	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	140	°C	ASTM D648
Peak Melting Temperature	223	°C	ASTM D3418
RTI Elec	130	°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)	23	kV/mm	ASTM D149
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI) ⁵	PLC 3		UL 746
Comparative Tracking Index (Solution A)	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Flame Rating		UL 94
0.710 mm	V-0	
1.50 mm	V-0	
3.30 mm	V-0	
Injection	Nominal Value	Unit
Drying Temperature	110 to 120	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	235 to 240	°C
Middle Temperature	240 to 245	°C
Front Temperature	245 to 250	°C
Nozzle Temperature	245 to 255	°C
Processing (Melt) Temp	245 to 255	°C
Mold Temperature	40.0 to 80.0	°C
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	
5.	Solution A	

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