

Lumax® GP5106FI

Polybutylene Terephthalate Alloy

LG Chem Ltd.

Message:

Description
Flame Retardant, Impact Modified, Dimensional Stability
Application
E&E(Switch)

General Information			
Features	Deadfold and Twist Retention		
	Flame Retardant		
	Good Dimensional Stability		
	Impact Modified		
Uses	Electrical/Electronic Applications		
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)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/3.8 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.90	%	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)	55.9	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3140	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	85.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	110	°C	ASTM D648
Peak Melting Temperature	223	°C	ASTM D3418
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (1.00 mm)	26	kV/mm	ASTM D149
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI) ⁵	PLC 3		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	4.0 to 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	225 to 235	°C	
Middle Temperature	230 to 245	°C	
Front Temperature	240 to 250	°C	
Nozzle Temperature	240 to 250	°C	
Processing (Melt) Temp	240 to 250	°C	
Mold Temperature	40.0 to 80.0	°C	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	Solution A		

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