

Lumax® GP5306F

Polybutylene Terephthalate Alloy

LG Chem Ltd.

Message:

Description
Flame Retardant, General Purpose
Applications
IT/OA, E&E

General Information			
UL YellowCard	E302314-530172	E67171-248429	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Connectors		
	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	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 (Yield, 3.20 mm)	108	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	2.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	8140	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	167	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	185	°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 (23°C)	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (23°C, 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
Flame Rating		Test Method
1.50 mm	V-0	UL 94
	V-0	

3.00 mm	5VA	
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	240 to 250	°C
Front Temperature	245 to 255	°C
Nozzle Temperature	245 to 255	°C
Processing (Melt) Temp	245 to 255	°C
Mold Temperature	60.0 to 90.0	°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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