Lupox® GP2156F

Polybutylene Terephthalate

LG Chem Ltd.

Message:

Description
Flame Retardant, General Purpose
Application
IT/OA, E&E, Automotive (Connector)

General Information			
UL YellowCard	E302314-530021	E67171-248570	E67171-248572
	E248280-322189	E353371-101107256	
Features	Fatigue Resistant		
	Flame Retardant		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Electrical Properties		
	High Rigidity		
	High Strength		
Uses	Appliance Components		
	Electrical Parts		
	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)		
	Viscosity vs. Shear Rate (ISO 11403-2)		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 1.0	%	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)	98.1	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus [3] (3.20 mm)	5200	MPa	ASTM D790
Flexural Strength [4] (Yield, 3.20 mm)	151	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	45	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	200	°C	ASTM D648
Peak Melting Temperature	223	°C	ASTM D3418
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (1.00 mm)	26	kV/mm	ASTM D149
Arc Resistance	PLC 7		ASTM D495
Comparative Tracking Index (CTI) [5]	PLC 3		UL 746
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.	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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