

Lupox® GP1006FD

Polybutylene Terephthalate

LG Chem Ltd.

Message:

Description

Flame Retardant, High Impact

Applications

IT/OA, Automotive (Connector)

General Information			
UL YellowCard	E302314-530020	E67171-248568	E248280-533891
	E353371-101101330		
Additive	Flame retardancy		
Features	Impact resistance, high		
	Flame retardancy		
Uses	Application in Automobile Field		
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	1.42	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (256°C/3.8 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.2 - 2.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	51.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2160	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	71.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁵ (23°C)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	62.0	°C	ASTM D648
Peak Melting Temperature	223	°C	ASTM D3418

RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.710 mm, ALL	V-0		UL 94
1.50 mm, ALL	V-0		UL 94
	V-0		

3.00 mm, ALL	5VA		UL 94
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Injection	Nominal Value	Unit
Drying Temperature	110 - 120	°C
Drying Time	4.0 - 6.0	hr
Rear Temperature	235 - 240	°C
Middle Temperature	240 - 245	°C
Front Temperature	245 - 250	°C
Nozzle Temperature	245 - 255	°C
Processing (Melt) Temp	245 - 255	°C
Mold Temperature	40.0 - 80.0	°C

Injection instructions

Minimum Moisture Content: 0.02%

NOTE
1. 50 mm/min
2. 50 mm/min
3. 2.8 mm/min
4. 2.8 mm/min
5. 3.2mm notch depth

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