

Lupox® SG5500

Polybutylene Terephthalate + PET

LG Chem Ltd.

Message:

Description
Good Surface, High Stiffness
Application
E&E, Automotive(Switch)

General Information			
Features	Good Surface Finish		
	High Stiffness		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Switches		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.72	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	17	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.90	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	147	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	2.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	15700	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	235	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	210	°C	ASTM D648
Peak Melting Temperature	223	°C	ASTM D3418
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0 to 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	250 to 260	°C	
Middle Temperature	255 to 265	°C	
Front Temperature	255 to 265	°C	

Nozzle Temperature	255 to 270	°C
Processing (Melt) Temp	255 to 270	°C
Mold Temperature	80.0 to 100	°C

NOTE		
1.	5.0 mm/min	
2.	5.0 mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	

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