

Lupox® SG5152

Polybutylene Terephthalate + PET

LG Chem Ltd.

Message:

Description

Good Surface, High Impact

Application

E&E, Automotive (Door Latch)

General Information			
Features	Good Surface Finish		
	High Impact Resistance		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 1.0	%	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)	76.5	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4610	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	127	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	200	°C	
1.8 MPa, Unannealed, 6.40 mm	180	°C	
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	245 to 255	°C	
Middle Temperature	250 to 260	°C	
Front Temperature	255 to 265	°C	

Nozzle Temperature	255 to 265	°C
Processing (Melt) Temp	255 to 265	°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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