

Lupox® SG5150

Polybutylene Terephthalate + PET

LG Chem Ltd.

Message:

Description
Good Surface
Application
E&E, Automotive(Door Latch)

General Information			
UL YellowCard	E67171-248593		
Features	Good Surface Finish		
Uses	Automotive Applications		
	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	1.43	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	33	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)	93.2	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	5590	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	147	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	39	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	190	°C	
Peak Melting Temperature	223	°C	ASTM D3418
RTI Elec	75.0	°C	UL 746
RTI Imp	75.0	°C	UL 746

RTI Str	75.0	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	HB	UL 94	
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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