

Lucon® SP9306FL

Syndiotactic Polystyrene

LG Chem Ltd.

Message:

Description

Low Thermal Conductivity, Chemical Resistance, High Heat Resistance

Application

Electrical or Electronic Parts

General Information			
UL YellowCard	E248280-100040861	E67171-498196	
Filler / Reinforcement	Mineral		
Features	Good Chemical Resistance		
	High Heat Resistance		
	Thermally Conductive		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (290°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	118	MPa	ASTM D638
Flexural Modulus ² (3.20 mm)	10800	MPa	ASTM D790
Flexural Strength ³ (Yield, 3.20 mm)	177	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 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 ⁴	260	°C	
0.45 MPa, Unannealed, 6.40 mm ⁵	220	°C	
Thermal Conductivity	0.40	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+15	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 to 140	°C	

Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	< 0.010	%
Rear Temperature	260 to 300	°C
Middle Temperature	270 to 320	°C
Front Temperature	275 to 320	°C
Nozzle Temperature	315	°C
Processing (Melt) Temp	315	°C
Mold Temperature	80.0 to 130	°C
Back Pressure	0.981 to 2.94	MPa
Screw Speed	40 to 60	rpm

NOTE

1. 5.0 mm/min
2. 1.3 mm/min
3. 1.3 mm/min
4. 4.6kg
5. 18.6kg

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