

LG Chemical LUCON SP9306FL sPS+MF

Category : Polymer , Thermoplastic , Polystyrene (PS) , Syndiotactic Polystyrene (SPS)

Material Notes:

Description Injection Molding Grade, sPS+MF, Low Thermal Conductivity, Chemical Resistance, High Heat Resistance
Application: Electrical or Electronic Parts CAS No. 9003-53-6, 65997-17-3, 68928-70-1 and 1309-64-4
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUCON-SP9306FL-sPSMF.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0020 - 0.0080 cm/cm @Thickness 3.20 mm	0.0020 - 0.0080 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 290 Å°C	6.0 g/10 min @Load 4.76 lb, Temperature 554 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	118 MPa @Thickness 3.20 mm	17100 psi @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	177 MPa @Thickness 6.40 mm	25600 psi @Thickness 0.252 in	1.3mm/min; ASTM D790
Flexural Modulus	0.177 GPa @Thickness 6.40 mm	25.6 ksi @Thickness 0.252 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.686 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	1.29 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ftÅ²-Å°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	260 Å°C @Thickness 6.40 mm	500 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	220 Å°C @Thickness 6.40 mm	428 Å°F @Thickness 0.252 in	ASTM D648

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	125 Â°C	258 Â°F	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	130 Â°C	266 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	115 Â°C	239 Â°F	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	120 Â°C	248 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	125 Â°C	257 Â°F	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	130 Â°C	266 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VA	5VA	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 300 Â°C	500 - 572 Â°F	Injection Molding
Middle Barrel Temperature	270 - 320 Â°C	518 - 608 Â°F	Injection Molding
Front Barrel Temperature	275 - 320 Â°C	527 - 608 Â°F	Injection Molding
Nozzle Temperature	315 Â°C	599 Â°F	Injection Molding
Melt Temperature			Resin, Injection Molding

Processing Properties	315 Â°C Metric	599 Â°F English	Comments
Mold Temperature	80.0 - 130 Â°C	176 - 266 Â°F	Injection Molding
Drying Temperature	120 - 140 Â°C	248 - 284 Â°F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding
Screw Speed	40 - 60 rpm	40 - 60 rpm	Injection Molding

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China