

LG Chemical LUSEP SP2300 SPS+GF30%, General Purpose

Category : Polymer , Thermoplastic , Polystyrene (PS) , Syndiotactic Polystyrene (SPS) , Syndiotactic Polystyrene (SPS) with Glass or Carbon Fiber

Material Notes:

Feature: Injection Molding, sPS+GF30%, General Purpose
Application: Pump Units, Pick-up Lends Holder, etc.
CAS No. 9003-53-6 and 65997-17-3
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUSEP-SP2300-SPSGF30-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0030 - 0.0090 cm/cm @Thickness 3.20 mm	0.0030 - 0.0090 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	118 MPa @Thickness 3.20 mm	17100 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	2.0 % @Thickness 3.20 mm	2.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	177 MPa @Thickness 3.20 mm	25600 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	8.83 GPa @Thickness 3.20 mm	1280 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.883 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	1.65 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	260 Å°C @Thickness 6.40 mm	500 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	>= 220 Å°C @Thickness 6.40 mm	>= 428 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	50.0 Å°C	122 Å°F	

Thermal Properties	Metric	English	Comments
	50.0 Å°C	122 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	50.0 Å°C	122 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Å°C	122 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	50.0 Å°C	122 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Å°C	122 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	HB	HB	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	HB	HB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	35.0 kV/mm	889 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Arc Resistance	120 - 180 sec	120 - 180 sec	ASTM D495
Comparative Tracking Index	500 - 600 V	500 - 600 V	Solution A; IEC 60112
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	270 - 290 Å°C	518 - 554 Å°F	Injection Molding
Middle Barrel Temperature	280 - 310 Å°C	536 - 590 Å°F	Injection Molding
Front Barrel Temperature	290 - 310 Å°C	554 - 590 Å°F	Injection Molding

Processing Properties	Metric	English	Comments
Nozzle Temperature	280 - 310 Â°C	536 - 590 Â°F	Injection Molding
Melt Temperature	280 - 310 Â°C	536 - 590 Â°F	Injection Molding
Mold Temperature	80.0 - 150 Â°C	176 - 302 Â°F	Injection Molding
Drying Temperature	80.0 - 100 Â°C	176 - 212 Â°F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding
Screw Speed	40 - 80 rpm	40 - 80 rpm	Injection Molding

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