Lusep® GP2300

Polyphenylene Sulfide LG Chem Ltd.

Technical Data

Product Description

Description General Purpose

Application

Pump, Motor Unit, Electric/Electronic Units, etc.

General				
Material Status	Commercial: Active			
Availability	Asia PacificEurope	Latin AmericaNorth America		
Filler / Reinforcement	 Glass Fiber, 30% Filler by Weight 			
Features	 General Purpose 			
Uses	 Electrical/Electronic Applications 	General Purpose	Pump Parts	
Processing Method	 Injection Molding 			

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.55	1.55 g/cm ³	ASTM D792
Molding Shrinkage - Flow (0.126 in (3.20 mm))	1.0E-3 to 2.0E-3 in/in	0.10 to 0.20 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Break, 0.126 in (3.20 mm))	21800 psi	150 MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Break, 0.126 in (3.20 mm)	1.0 to 2.0 %	1.0 to 2.0 %	
Flexural Modulus ³ (0.126 in (3.20 mm))	1.84E+6 psi	12700 MPa	ASTM D790
Flexural Strength ³ (0.126 in (3.20 mm))	36300 psi	250 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	1.3 ft·lb/in	70 J/m	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.252 in (6.40 mm)	509 °F	265 °C	
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity (73°F (23°C))	1.0E+15 ohms cm	1.0E+15 ohms cm	ASTM D257
Dielectric Strength			ASTM D149
73°F (23°C), 0.0394 in (1.00 mm)	710 V/mil	28 kV/mm	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.030 in (0.75 mm))	V-0	V-0	UL 94

Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	212 to 248 °F	100 to 120 °C	
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr	
Suggested Max Moisture	0.020 %	0.020 %	
Rear Temperature	572 °F	300 °C	
Middle Temperature	590 °F	310 °C	
Front Temperature	608 °F	320 °C	
Nozzle Temperature	626 °F	330 °C	
Processing (Melt) Temp	572 to 626 °F	300 to 330 °C	
Mold Temperature	248 to 302 °F	120 to 150 °C	
Screw Speed	< 100 rpm	< 100 rpm	



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Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)

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Where to Buy

Supplier

LG Chem Ltd. Englewood Cliffs, NJ USA Telephone: 201-816-2302 Web: http://www.chemwide.com/

Distributor

Conventus Polymers Telephone: 973-343-7669 Web: http://www.conventuspolymers.com/ Availability: North America

Southland Polymers Southland Polymers - Full Service Engineering and Commodity Resin Distribution Since 1979 Telephone: 562-921-0444 Web: http://www.southlandpolymers.com/ Availability: Central America, North America, South America



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