

Technical Data

Product Description

Description
General Purpose

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

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North 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
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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
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Tensile Strength ² (Break, 0.126 in (3.20 mm))	21800 psi	150 MPa	ASTM D638
Tensile Elongation ² Break, 0.126 in (3.20 mm)	1.0 to 2.0 %	1.0 to 2.0 %	ASTM D638
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
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Notched Izod Impact 73°F (23°C), 0.126 in (3.20 mm)	1.3 ft·lb/in	70 J/m	ASTM D256
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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
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Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.252 in (6.40 mm)	509 °F	265 °C	ASTM D648
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Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Volume Resistivity (73°F (23°C))	1.0E+15 ohms·cm	1.0E+15 ohms·cm	ASTM D257
Dielectric Strength 73°F (23°C), 0.0394 in (1.00 mm)	710 V/mil	28 kV/mm	ASTM D149

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
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Flame Rating (0.030 in (0.75 mm))	V-0	V-0	UL 94
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Injection	Nominal Value (English)	Nominal Value (SI)
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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



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)



Lusep® GP2300

Polyphenylene Sulfide

LG Chem Ltd.

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