

Lusep® SP2300

Syndiotactic Polystyrene

LG Chem Ltd.

Message:

Description

General purpose

Application

Pump Units, Pick-up Lends Holder, etc.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	General Purpose		
Uses	Pump Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	118	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	2.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	8830	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	177	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm ⁵	260	°C	
0.45 MPa, Unannealed, 6.40 mm ⁶	220	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (23°C, 1.00 mm)	35	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	500 to 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	3.0 to 5.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	270 to 290	°C	
Middle Temperature	280 to 310	°C	
Front Temperature	290 to 310	°C	
Nozzle Temperature	280 to 310	°C	

Processing (Melt) Temp	280 to 310	°C
Mold Temperature	80.0 to 150	°C
Screw Speed	40 to 80	rpm
NOTE		
1.	5.0 mm/min	
2.	5.0 mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	
5.	4.6kg	
6.	18.6kg	

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