

Lion Idemitsu Composites PPS G540N1

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS G540N1 is a Polyphenylene Sulfide (PPS) product filled with 40% glass fiber. It is available in Asia Pacific.

Characteristics include:

Flame Rated

High Flow

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	High Flow		
Appearance	Black		
	Brown		
Part Marking Code (ISO 11469)	>PPS-GF40<		
Physical	Nominal Value	Unit	Test Method
Density	1.67	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.50	%	
Flow	0.30	%	
Water Absorption (23°C, 24 hr)	> 0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	155	MPa	ISO 527-2
Tensile Strain (Break)	1.1	%	ISO 527-2
Flexural Modulus	14000	MPa	ISO 178
Flexural Stress	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	13	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 260	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.5E-5	cm/cm/°C	
Transverse	4.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Electric Strength (1.00 mm)	20	kV/mm	IEC 60243-1
Dielectric Constant	3.80		IEC 60250
Dissipation Factor	2.0E-3		IEC 60250
Comparative Tracking Index	4.00	V	UL 746

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.390 mm)	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Flowability ² (1.00 mm)	192	mm	Internal Method

NOTE

1. Internal Method
Thickness 1mm, Cylinder
temperature 320°C, Injection
pressure 100MPa, Mold
temperature 135°C
- 2.

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