

Lion Idemitsu Composites PPS C-600SG

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS C-600SG is a Polyphenylene Sulfide (PPS) product filled with 30% carbon fiber. It is available in Asia Pacific.

Characteristics include:

Flame Rated

Conductive

High Strength

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Electrically Conductive		
	High Strength		
	Lubricated		
Appearance	Black		
Part Marking Code (ISO 11469)	>PPS-CF30<		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.50	%	
Flow	0.20	%	
Water Absorption (23°C, 24 hr)	> 0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	108		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	231	MPa	ISO 527-2
Tensile Strain (Break)	1.0	%	ISO 527-2
Flexural Modulus	25700	MPa	ISO 178
Flexural Stress	342	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	7.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	274	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.4E-5	cm/cm/°C	
Transverse	4.2E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+2	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method

Flame Rating (0.750 mm)	V-0	UL 94	
Additional Information	Nominal Value	Unit	Test Method
Flowability ² (1.00 mm)	155	mm	Internal Method
NOTE			
1.	Internal Method		
2.	Thickness 1mm, Cylinder temperature 320°C, Injection pressure 100MPa, Mold temperature 135°C		

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