

Lion Idemitsu Composites PPS C-150SG

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS C-150SG is a Polyphenylene Sulfide (PPS) product filled with 50% glass fiber. It is available in Asia Pacific. Primary characteristic: high strength.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	High Strength		
Appearance	Brown		
Part Marking Code (ISO 11469)	>PPS-GF50<		
Physical	Nominal Value	Unit	Test Method
Density	1.74	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.50	%	
Flow	0.40	%	
Water Absorption (23°C, 24 hr)	> 0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	101		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	196	MPa	ISO 527-2
Tensile Strain (Break)	1.6	%	ISO 527-2
Flexural Modulus	17900	MPa	ISO 178
Flexural Stress	289	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	16	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	273	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.5E-5	cm/cm/°C	
Transverse	4.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Electric Strength			IEC 60243-1
1.00 mm	29	kV/mm	
3.00 mm	13	kV/mm	
Dielectric Constant	4.10		IEC 60250
Dissipation Factor	2.0E-3		IEC 60250
Additional Information	Nominal Value	Unit	Test Method

Flowability ² (1.00 mm)	142	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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