

Lion Idemitsu Composites PPS T531J1

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS T531J1 is a Polyphenylene Sulfide (PPS) product filled with 50% carbon\mineral. It is available in Asia Pacific. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Carbon\Mineral,50% Filler by Weight		
Features	Lubricated		
Appearance	Black		
Part Marking Code (ISO 11469)	>PPS-(CF+MD)50<		
Physical	Nominal Value	Unit	Test Method
Density	1.59	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.30	%	
Flow	0.15	%	
Water Absorption (23°C, 24 hr)	0.010	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	84		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	89.0	MPa	ISO 527-2
Tensile Strain (Break)	0.40	%	ISO 527-2
Flexural Modulus	35600	MPa	ISO 178
Flexural Stress	229	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	7.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	277	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	8.0E-6	cm/cm/°C	
Transverse	2.3E-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 (1.00 mm)	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Flowability ² (1.00 mm)	6.20	cm	Internal Method
NOTE			
1.	Internal Method		

2.

Thickness 1mm, Cylinder
temperature 320°C, Injection
pressure 100MPa, Mold
temperature 135°C

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