

Lion Idemitsu Composites PPS K531A1

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS K531A1 is a Polyphenylene Sulfide (PPS) product filled with 70% glass\mineral. It is available in Asia Pacific.

Characteristics include:

Flame Rated

Good Processability

General Information			
Filler / Reinforcement	Glass\Mineral,70% Filler by Weight		
Features	Good Moldability		
	Minimal Flash		
Appearance	Black		
Part Marking Code (ISO 11469)	>PPS+PPE-(GF+KD)70<		
Physical	Nominal Value	Unit	Test Method
Density	1.93	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.40	%	
Flow	0.30	%	
Water Absorption (23°C, 24 hr)	> 0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	97		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	114	MPa	ISO 527-2
Tensile Strain (Break)	0.80	%	ISO 527-2
Flexural Modulus	18700	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	7.7	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	275	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.4E-5	cm/cm/°C	
Transverse	2.4E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Electric Strength (3.00 mm)	13	kV/mm	IEC 60243-1
Dielectric Constant	4.70		IEC 60250

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Flowability ² (1.00 mm)	8.20	cm	Internal Method

NOTE

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

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