

Lion Idemitsu Composites PPS K541A3

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS K541A3 is a Polyphenylene Sulfide (PPS) product filled with 70% glass\mineral. It is available in Asia Pacific. Typical application: Adhesives/Tapes.
Characteristics include:
Flame Rated
Good Adhesion

General Information			
Filler / Reinforcement	Glass\Mineral,70% Filler by Weight		
Features	Good Adhesion		
Uses	Adhesives		
Appearance	Brown		
Part Marking Code (ISO 11469)	>PPS-(GF+KD)70<		
Physical	Nominal Value	Unit	Test Method
Density	1.99	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.70	%	
Flow	0.30	%	
Water Absorption (23°C, 24 hr)	0.010	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	115	MPa	ISO 527-2
Tensile Strain (Break)	1.4	%	ISO 527-2
Flexural Modulus	17500	MPa	ISO 178
Flexural Stress	205	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	65	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	2.1E-5	cm/cm/°C	
Transverse	2.2E-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	25	kV/mm	
3.00 mm	15	kV/mm	

Dielectric Constant	5.40		IEC 60250
Dissipation Factor	2.9E-3		IEC 60250
Comparative Tracking Index	3.00	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.870 mm)	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Flowability ² (1.00 mm)	9.00	cm	Internal Method
NOTE			
1.	Internal Method		
	Thickness 1mm, Cylinder temperature 320°C, Injection pressure 100MPa, Mold temperature 135°C		
2.			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

