

Lion Idemitsu Composites PPS Y531F1

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS Y531F1 is a Polyphenylene Sulfide (PPS) product filled with 30% mineral. It is available in Asia Pacific.

Characteristics include:

- Flame Rated
- Good Aesthetics
- Good Processability
- Lubricated

General Information			
Filler / Reinforcement	Mineral,30% Filler by Weight		
Additive	PTFE Lubricant		
Features	Good Moldability		
	Good Surface Finish		
	Lubricated		
Appearance	Black		
Part Marking Code (ISO 11469)	>PPS+PTFE-MH30<		
Physical	Nominal Value	Unit	Test Method
Density	1.74	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	1.1	%	
Flow	1.0	%	
Water Absorption (23°C, 24 hr)	0.010	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	75		
R-Scale	115		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	70.0	MPa	ISO 527-2
Tensile Strain (Break)	1.7	%	ISO 527-2
Flexural Modulus	7400	MPa	ISO 178
Flexural Stress	112	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	2.6	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	143	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	

Transverse	4.6E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Constant	3.50		IEC 60250
Dissipation Factor	1.0E-3		IEC 60250
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)	117	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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