

Lion Idemitsu Composites PPS G141Z1

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS G141Z1 is a Polyphenylene Sulfide (PPS) product filled with 70% glass\mineral. It is available in Asia Pacific.

Characteristics include:

Flame Rated

Conductive

Insulating

General Information			
Filler / Reinforcement	Glass\Mineral,70% Filler by Weight		
Features	Electrically Insulating		
	Thermally Conductive		
Appearance	Black		
Part Marking Code (ISO 11469)	>PPS-(GF+MD)70<		
Physical	Nominal Value	Unit	Test Method
Density	1.93	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.20	%	
Flow	0.20	%	
Water Absorption (23°C, 24 hr)	> 0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	77		
R-Scale	109		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	80.0	MPa	ISO 527-2
Tensile Strain (Break)	0.30	%	ISO 527-2
Flexural Modulus	30600	MPa	ISO 178
Flexural Stress	177	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	12	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	286	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	7.0E-6	cm/cm/°C	
Transverse	1.9E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257

Electric Strength (1.00 mm)	40	kV/mm	IEC 60243-1
Dielectric Constant	4.00		IEC 60250
Dissipation Factor	1.4E-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)	115	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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