

Lion Idemitsu Composites PPS G131Z1

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS G131Z1 is a polyphenylene sulfide (PPS) product, which contains 70% glass \minerals. It is available in the Asia-Pacific region. The main characteristics are: conductivity.

General Information			
Filler / Reinforcement	Glass \mineral, 70% filler by weight		
Features	Conductivity		
	Heat conduction		
Appearance	Black		
Part Marking Code (ISO 11469)	>PPS-(GF+MD)70		
Physical	Nominal Value	Unit	Test Method
Density	1.95	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Vertical flow direction	0.20	%	ISO 294-4
Flow direction	0.10	%	ISO 294-4
Water Absorption (23°C, 24 hr)	> 0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M scale	67		ISO 2039-2
R scale	107		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	60.0	MPa	ISO 527-2
Tensile Strain (Break)	0.20	%	ISO 527-2
Flexural Modulus	31400	MPa	ISO 178
Flexural Stress	134	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	7.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	288	°C	ISO 75-2/A
Linear thermal expansion coefficient			ISO 11359-2
Flow	6.0E-6	cm/cm/°C	ISO 11359-2
Lateral	1.3E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength (1.00 mm)	45	kV/mm	IEC 60243-1
Dielectric Constant	3.90		IEC 60250

Dissipation Factor	1.2E-3		IEC 60250
Additional Information	Nominal Value	Unit	Test Method
Flowability ² (1.00 mm)	7.00	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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