

Lion Idemitsu Composites PPS G142Z1

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS G142Z1 is a Polyphenylene Sulfide (PPS) product filled with 70% glass\mineral. It is available in Asia Pacific.

Characteristics include:

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	2.00	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.30	%	
Flow	0.30	%	
Water Absorption (23°C, 24 hr)	> 0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	94		
R-Scale	117		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	114	MPa	ISO 527-2
Tensile Strain (Break)	0.60	%	ISO 527-2
Flexural Modulus	25600	MPa	ISO 178
Flexural Stress	198	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	14	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	1.1E-5	cm/cm/°C	
Transverse	2.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257

Electric Strength (1.00 mm)	25	kV/mm	IEC 60243-1
Dielectric Constant	4.70		IEC 60250
Dissipation Factor	1.5E-3		IEC 60250
Additional Information	Nominal Value	Unit	Test Method
Flowability ² (1.00 mm)	110	mm	Internal Method

NOTE

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|----|---|
| 1. | Internal Method |
| 2. | Thickness 1mm, Cylinder
temperature 320°C, Injection
pressure 100MPa, Mold
temperature 135°C |

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Recommended distributors for this material

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

