

Lion Idemitsu Composites PPS Y551F1

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS Y551F1 is a Polyphenylene Sulfide (PPS) product filled with 50% mineral. It is available in Asia Pacific.

Characteristics include:

Flame Rated

Good Aesthetics

Good Processability

Lubricated

General Information			
Filler / Reinforcement	Mineral,50% Filler by Weight		
Additive	PTFE Lubricant		
Features	Good Moldability Good Surface Finish Lubricated		
Appearance	Black		
Part Marking Code (ISO 11469)	>PPS+PTFE-MH50<		
Physical	Nominal Value	Unit	Test Method
Density	1.89	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.70	%	
Flow	0.40	%	
Water Absorption (23°C, 24 hr)	> 0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	93		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	77.0	MPa	ISO 527-2
Tensile Strain (Break)	0.80	%	ISO 527-2
Flexural Modulus	16300	MPa	ISO 178
Flexural Stress	137	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	2.9	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	222	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.6E-5	cm/cm/°C	
Transverse	3.5E-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	29	kV/mm	
3.00 mm	13	kV/mm	
Dielectric Constant	3.90		IEC 60250
Dissipation Factor	1.2E-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			

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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

