

SUMITOMO BAKELITE TECHNICAL REPORT

SUMILITE® FS-1100C
(Polyether-ether-ketone film)

Typical Properties

Property	Unit	Test Method	FS-1100C	Remarks
Glass Transition Temperature	°C	JIS K 7121	143	
Thermal Conductivity	W/m/K	-	0.25	
Coefficient of Linear Thermal Expansion	ppm/°C	-	46	
Specific Heat	J/g/°C	JIS K 7123	1.52	
Specific Gravity	-	JIS K 7112	1.27	
Tensile Strength	MPa	JIS K 7127	147/96	MD/TD
Elongation	%	JIS K 7127	150/171	MD/TD
Tensile Modulus	MPa	JIS K 7127	3006/2619	MD/TD
Flexural Modulus	MPa	JIS K 7106	3228/2725	MD/TD
Tear Strength	N/mm	JIS K 7128	334/435	MD/TD
Transparency	%	JIS K 7105	53.4	
Haze	%	JIS K 7105	81.0	
Refractive Index	-	JIS K 7105	-	
Water Absorption	%	40°C, 90%RH	0.35	
Water Vapour	g/m ² /24h	JIS K 7129	8.2	
Dielectric Strength	KV/mm	JIS K 6911	82/56	ST/SS
Surface Resistivity		JIS K 6911	7.1*10 ¹⁵	
Volume Resistivity	.cm	JIS K 6911	3.6*10 ¹⁶	
Dielectric Constant	-	JIS K 6911	3.17 3.14 3.05	1kHz 1MHz 1GHz
Dissipation Factor	-	JIS K 6911	2.3*10 ⁻³ 6.3*10 ⁻³ 2.6*10 ⁻³	1kHz 1MHz 1GHz

<NOTE> The above information is based upon the results of our testing and study. It can not be assumed that these data cover all uses, applications or conditions in connection with this film. Accordingly, SUMITOMO BAKELITE makes no warranty, express or implied that the product conforms to these data. All measured values are for 100um-thickness films.

Product Specifications

Thickness : 25um - 400um

Width : 450mm - 660mm

Please consult us for products with other thickness.



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