

# SUMITOMO BAKELITE TECHNICAL REPORT

SUMILITE® FS - 1100C  
(Polyether ether ketone)

## Typical Properties

Property	Unit	Test Method	FS-1100C	Remarks
Glass Transition Temperature		JIS K 7121	143	
Thermal Conductivity	W/m/K	-	0.25	
Coefficient of Linear Thermal Expansion	-1	-	$4.6 \times 10^{-5}$	
Specific Heat	J/g/	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	3180/2780	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	
Refractive Index	-	JIS K 7105	-	
Water Absorption	%	-	0.35	
Water Vapour	g/m <sup>2</sup> /24h	JIS K 7129	8.2	
Dielectric Strength	KV/mm	JIS K 6911	82/56	ST/SS
Surface Resistivity		JIS K 6911	$7.1 \times 10^{15}$	
Volume Resistivity	· cm	JIS K 6911	$3.6 \times 10^{16}$	
Dielectric Constant	-	JIS K 6911	3.17	1kHz
			3.14	1MHz
			3.05	1GHz
Dissipation Factor	-	JIS K 6911	$2.3 \times 10^{-3}$	1kHz
			$6.3 \times 10^{-3}$	1MHz
			$2.6 \times 10^{-3}$	1GHz

NOTE The above information is based upon the results of our testing and study. It can not be assumed that these date over 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 date. All measured values are for 100um-thickness films

## Product Specification

Thickness : 50um - 400um Width : 620mm - 660mm

Please consult us for products with other thickness

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