

Description

Ultem*1000B film is a high performance thermoplastic Polyetherimide material. The combination of high temperature resistance, flame resistance, low moisture absorption and excellent dielectric properties makes Ultem film a good candidate for a broad range of electrical and electronic applications. Ultem film products are thermo-formable and can be heat-sealed to a wide variety of materials.

Gauges:	75 µm (0,003") +/-5% - 500 µm (0,020") +/-5%
Standard roll width:	1270 mm (50")
Texture:	Smooth / fine matte
Color code :	71082
Color :	Black

Typical Property Values◆

Property	Test Method	Units	Value
Physical			
Specific Gravity	ISO 1183	g/cc	1.27
Water Absorption, immersion, 23°C, 24 hr.	ASTM D570	%	1.25
Water Absorption, 50%RH, 23°C, 24 hr.	ASTM D570	%	0.48
Mechanical			
Tensile Modulus	ISO R527	MPa	3000
Tensile Strength @ Yield	ISO R527	Mpa	100
Tensile Elongation @ Yield	ISO R527	%	6.5
Tensile Strength @ Break	ISO R527	Mpa	95
Tensile Elongation @ Break	ISO R527	%	60
Tear Strength Initiation @75 µm	ASTM D1004	N/mm	260
Tear Strength Propagation @ 75 µm	ASTM D1938	N/mm	3,5
Thermal			
Coefficient of Thermal Expansion	IPC-TM-650	ppm/°C	52
Shrinkage @ 170°C EXT. DIR.	IPC-TM-650	%	0.33
Shrinkage @ 170°C CROSS. DIR.	IPC-TM-650	%	0.24
Glass Transition Temperature	DMA	°C	217
Thermal Conductivity	ASTM C177	W/m°C	0.22
Electrical			
Dielectric Strength @ 125 µm oil	ASTM D149	Volts/mil	2,410
Dielectric Constant	IPC-TM-650		3.2
Dissipation Factor	IPC-TM-650		0.005
Volume Resistivity	ASTM D257	M `Ω-cm	2.5 x 10 ¹⁵
Surface Resistivity	ASTM D257	M `Ω	1.9 x 10 ¹⁶
Flammability			
UL Performance (75 - 500 µm)	UL 94		VTM-0

◆ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC Innovative Plastics' representative or the Quality Services Department.

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