

Description

Ultem* 1000B Natural 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:	25 µm (0,001") +/-10% - 50 µm (0,002") +/-10%
Standard roll width:	1270 mm (50")
Texture:	matte / matte
Color code:	1000
Color:	Natural amber

Typical Property Values ♦

Property	Test Method	Units	Value
Physical			
Specific Gravity	ISO 1183	g/cc	1.27
Water Absorption, Equilibrium at 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	2,800
Tensile Strength @ Yield	ISO R527	Mpa	100
Tensile Elongation @ Yield	ISO R527	%	6.0
Tensile Strength @ Break	ISO R527	Mpa	95
Tensile Elongation @ Break	ISO R527	%	50
Tear Strength Initiation	ASTM D1004	N/mm	260
Thermal			
Coefficient of Thermal Expansion	IPC-TM-650	ppm/°C	52
Shrinkage @ 170°C EXT. DIR.	IPC-TM-650	%	0.49
Shrinkage @ 170°C CROSS. DIR.	IPC-TM-650	%	0.30
Glass Transition Temperature	DMA	°C	217
Electrical			
Dielectric Strength @ 25 µm Natural	ASTM D149	Volts/mil	6400
Flammability			
UL Performance	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 Service Department.

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Ultem*

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