

ULTEM™ 1000B NATURAL FILM

(25 µm –50 µm)

PRODUCT DATASHEET

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.

TYPICAL PROPERTY VALUES◆

PROPERTY	TEST METHOD	UNITS	VALUE
Mechanical			
Tensile Modulus	ISO R527	MPa	2,800
Tensile Strength @ Yield	ISO R527	MPa	100
Tensile Elongation at @ Yield	ISO R527	%	6.0
Tensile Strength @ Break	ISO R527	Mpa	95
Tear Strength Elongation @ Break	ISO R527	M%	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
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
Electrical			
Dielectric Strength @ 125 µm Natural	ASTM D149	Volts/mil	6.400
Flammability			
UL Performance	UL94		VTM-0

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

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PRODUCT AVAILABILITY

Gauge : 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

CONTACT US:

Middle East and Africa

SABIC Global Headquarters
PO Box 5101
Riyadh 11422
Saudi Arabia
T +966 (0) 1 225 8000
F +966 (0) 1 225 9000
E info@sabic.com

Americas

Functional Forms
1 Plastics Avenue
Pittsfield, MA 01201
USA
Toll-free 1 800 323 3783
T 1 413 448 6655
F (888) 443 2033
E sales.spinside@sabic.com

Europe

Functional Forms
Plasticslaan 1
4612 PX
Bergen op Zoom
The Netherlands
T +31 (0)164 293678
F +31 (0)164 293272
E sfs.info@sabic.com

Asia Pacific

Functional Forms
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 21 2037 8188
F +86 21 2037 8288
E sfs.info@sabic.com

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