

## Description

Ultem\*1000B Black 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.

<b>Gauges:</b>	25 µm (0,001") +/-10% - 50 µm (0,002") +/-10%
<b>Standard roll width:</b>	1270 mm (50")
<b>Texture:</b>	matte / matte
<b>Color code:</b>	71082
<b>Color:</b>	Black

## Typical Property Values ♦

Property	Test Method	Units	Value
<b>Physical</b>			
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
<b>Mechanical</b>			
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
<b>Thermal</b>			
Coefficient of Thermal Expansion	IPC-TM-650	ppm/°C	52
Shrinkage @ 170°C EXT. DIR.	IPC-TM-650	%	0.45
Shrinkage @ 170°C CROSS. DIR.	IPC-TM-650	%	0.30
Glass Transition Temperature	DMA	°C	217
<b>Electrical</b>			
Dielectric Strength @ 25 µm	ASTM D149	Volts/mil	4600
<b>Flammability</b>			
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 Services Department.

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Americas:

SABIC Innovative Plastics  
Specialty Film & Sheet  
One Plastics Avenue  
Pittsfield, MA 01201  
USA  
Tel. (1) (413) 448 5400  
Fax. (1) (413) 448 7506  
Toll free: 1-800 451 3147

Europe:

SABIC Innovative Plastics  
Specialty Film & Sheet  
Plasticslaan 1  
NL - 4612 PX Bergen op Zoom  
The Netherlands  
Tel. (31) (164) 292911  
Fax. (31) (164) 293272

Pacific:

SABIC Innovative Plastics  
Specialty Film & Sheet  
1266 Nanjin Road (W)  
Plaza 66, 17<sup>th</sup> Floor  
200040 Shanghai, China  
Tel. (86) 21 62881088  
Fax. (86) 21 62880818

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