

Ultem* 1000B Natural Film 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.

Color code: 1000

Gauges: 25 μm +/- 5%

Typical Property Values ◆

Property	Test Method	Units	Value
Physical			
Specific Gravity	ISO 1183	g/cc	1.27
Water Absorption, Equilibrium at 23°C	ASTM D570	%	1.25
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	115
Tensile Elongation @ Break	ISO R527	%	125
Tear Strength Initiation	ASTM D1004	N	6.5
Thermal			
Coefficient of Thermal Expansion	IPC-TM-650	ppm/°C	52
Shrinkage @ 170°C EXT. DIR.	IPC-TM-650	%	0.300
Shrinkage @ 170°C CROSS. DIR.	IPC-TM-650	%	0.180
Glass Transition Temperature	DMA	°C	217
Electrical			
Dielectric Strength @ 25 μm Natural	ASTM D149	kV/mm	255
Flammability			
UL Performance (internal GE testing)	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 GE Structured Products representative or the GE Structured Products Quality Services Department.



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