

# Ultem\* WH217 Film Product Datasheet

## Description

Ultem\* WH217 film is produced from amorphous thermoplastic Ultem resin, a high temperature Polyetherimide material with combination of high temperature resistance, flame resistance, low moisture absorption and excellent dielectric properties which makes it an excellent candidate for a broad range of electrical and electronic applications. Ultem WH217 is an inherently flame retardant opaque film, making it an ideal candidate for electronic labeling applications.

<b>Gauges:</b>	50 µm (0.002")
<b>Standard roll width:</b>	1285 mm (47")
<b>Texture:</b>	Smooth/Ultra fine matte
<b>Color code :</b>	WH9C286
<b>Color :</b>	White

## Typical Property Values◆

Property	Test Method	Unit	Value
<b>Physical</b>			
Thickness	GE-method	mm	0.050
Specific Gravity	ASTMD 792	-	1.49
Surface Roughness-Ra (pol)	DIN 4768	Mu	0.20
Gloss- 60 Deg (pol)	DIN 5033	%	80
Light Transmission	ASTM D1003	%	15
<b>Mechanical</b>			
Tensile strength at yield	ASTM D 882-02	Mpa	101
Tensile Modulus	ASTM D 882-02	GPa	3.7
Elongation at yield	ASTM D 882-02	%	5.5
Elongation at break	ASTM D 882-02	%	25
Tear strength - initiation 0.050 mm - MD	ASTM D 1004-03	KN/m	238
Tear strength - initiation, 0.050 mm - TD	ASTM D 1004-03	KN/m	221
Tear strength - propagation, 0.050 mm - MD	ASTM D 1004-03	KN/m	3.8
Tear strength - propagation, 0.050 mm - TD	ASTM D 1004-03	KN/m	4.0
Shrinkage, 170 °C, 30 minutes- MD	GE-method	%	0.5
Shrinkage, 170 °C, 30 minutes- TD	GE-method	%	0.5
Shrinkage, 200 °C, 30 minutes- MD	GE-method	%	0.7
Shrinkage, 200 °C, 30 minutes- TD	GE-method	%	0.5
<b>Electrical</b>			
Dielectric strength, 0.050 mm, in oil	ASTM D 149-97a	Volts	7300

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

\* Ultem is a trademark of General Electric Company



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