

# ULTEM™ 1668A SHEET

## PRODUCT DATASHEET

### DESCRIPTION

ULTEM™ 1668A sheet is an extruded polyetherimide sheet material used for aircraft interior applications. ULTEM 1668A sheet meets many commercial aircraft interior requirements including an OSU heat release rate below 65/65, as well as FAA smoke and flammability testing criteria. The material may be thermoformed, pressure formed, twin sheet formed or used in flat or cold formed applications. Information on stain and chemical resistance, processing and secondary operations is available upon request.

### TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
<b>PHYSICAL</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1,27
Water Absorption, equilibrium, 23° C	ISO 62	%	1,25
<b>MECHANICAL</b>			
Tensile Strength,	ISO 527		
@ yield		MPa	95
@ Break		MPa	70
Tensile Modulus	ISO 527	MPa	3000
Tensile Elongation, @ break	ISO 527	%	35
Flexural Strength	ISO 178	MPa	135
Flexural Modulus	ISO 178	MPa	3000
Izod impact strength			
@ Notched, 23°C	ISO 180	kJ/m <sup>2</sup>	6
@ Un-notched, 23°C	ISO 180		no break
<b>THERMAL</b>			
Coefficient of Thermal Expansion	ISO 11359-2	1/°C	5 x 10 <sup>5</sup>
Heat Deflection Temperature			
@ 1,82 MPa	ISO 75/Ae	°C	180
<b>FLAMMABILITY<sup>#</sup></b>			
OSU Heat Release Rate @ 3,5 W/cm <sup>2</sup>	OSUHRRC		
@ 2 min		kW.min/m <sup>2</sup>	< 55
@ Peak		kW.m <sup>2</sup>	< 55
NBS Smoke, Flaming Mode, Ds, 4 min	ASTM E662	-	< 100
FAA Flammability @ 1 to 6 mm	FAR 25.853/60 s vertical test	-	Pass
Toxicity	BSS 7239/ABD0031		Pass

◆ 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 SABIC Innovative Plastics' Quality Services Department.

# This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.  
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## CHEMICAL RESISTANCE

ULTEM™ 1668A sheet is resistant to a broad range of solvents and chemical detergents, including most common automotive and aircraft fluids (skydrol excluded). While being resistant to a broad range of chemicals ULTEM 1668A sheet is attacked by chlorinated solvents and ketones.

## PRODUCT AVAILABILITY

Standard gauges	1.2 mm, 1.5 mm, 2 mm, 3 mm
Textures	Deep suede matt/smooth (29-texture)
Colours	Customer colours

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