

ULTEM* 1668L Sheet

Product Datasheet

Description

ULTEM* 1668L sheet is an extruded polyetherimide (PEI) alloy sheet material used for aircraft interior applications. ULTEM 1668L sheet is Low Gloss ULTEM sheet. ULTEM 1668L sheet is inherently flame resistant with low smoke emission. ULTEM 1668L sheet meets all commercial aircraft interior requirements including 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 coldformed applications. Information on stain and chemical resistance, processing, and secondary operations is available upon request.

Typical property Values *

Property	Test Method	Units	Value
Physical			
Specific Gravity (Color Dependent)	ASTM D792		1.26 – 1.33
Water Absorption, Equilibrium, 24 hrs.	ASTM D570	%	.23
Mechanical			
Tensile Strength Ultimate	ASTM D638	psi @ yield	13,600 12,000
Tensile Modulus	ASTM D638	psi	546,000
Tensile Elongation	ASTM D638	% Ultimate	92
Flexural Strength (Gauge Dependent)**	ASTM D790	psi	20,500
Flexural Modulus (Gauge Dependent)**	ASTM D790	psi	526000
Izod Impact Strength (Gauge Dependent)**	ASTM D256A	ft-lbs/in	
Notched @ 75°F			1.0
Unnotched @ 75°F			No Break
Gardner Impact Strength, Round Tup (Gauge Dependent)**	ASTM D3029	in-lbs @ 75°F	>320
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	2.75 x 10-5
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	373
@ 66 psi			395
Flammability			
FAA Heat Release: @3.5 W/cm ₂	FAR 25.853 (a-1)		
@ 2 min	Appendix F, Part IV	kW min/m ₂	<20
@ Peak			kW/m ₂ <60
FAA Smoke, Flaming Mode	FAR25.853 (c-1)		<20
80 + 125mils	Appendix F, Part V		
FAA Flammability	FRA 25.853 (a-1-i)		Pass
80 + 125mils	Appendix F, Part I		
Toxicity	BSS 7239		Pass

* These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local GE Advance Materials, Specialty Film & Sheet representative or the GE Advance Materials, Specialty Film & Sheet Quality Services Department.

** Reported Values are Based on 0.125" Thickness.

Note: This preliminary data sheet is provided to assist you in the evaluation of the product that is under development. Until GE releases this product for general sales, GE reserves the right to alter prices, specifications, features, capabilities, function, release dates, and even general availability of the product at any time.



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