

PRODUCT DATASHEET

Lexan* XHR5000 Sheet

DESCRIPTION

Lexan* XHR5000 sheet is a co-extruded, flame retardant sheet designed for aircraft interior applications requiring compliance to stringent FAR 25.853 requirements (OSU 65/65, Vertical Burn, Smoke Density, and OEM Toxicity). XHR5000 Sheet is provided with a pigmented white cap-layer (AB co-extrusion construction) over a black base. In window shade applications, this construction provides excellent opacity and eliminates carbon powder mark-off. The A surface of this product is designed for lamination with a decorative film.

TYPICAL PROPERTY VALUES

Property	ASTM Test Method	Units	Value
Physical			
Density	ASTM D792	g/cm ³	1.38
Water absorption, 24 hour method, 23°C	ASTM D570	%	0.31
Mechanical			
Tensile Strength, yield, machine dir.	ASTM D638	psi	10600
Tensile Strength, break , machine dir	ASTM D638	psi	10800
Tensile modulus, machine dir.	ASTM D638	psi	348000
Tensile elongation, break, machine dir.	ASTM D638	%	100
Tensile Strength, yield, transverse dir.	ASTM D638	psi	10600
Tensile Strength, break , transverse dir.	ASTM D638	psi	8710
Tensile modulus, transverse dir.	ASTM D638	psi	337000
Tensile elongation, break, trans. dir.	ASTM D638	%	58
Flexural strength, machine direction	ASTM D790	psi	17500
Flexural modulus, machine direction	ASTM D790	psi	477000
Flexural strength, transverse direction	ASTM D790	psi	18300
Flexural modulus, transverse direction	ASTM D790	psi	483000
High Speed Puncture, Dynatup, 23°C	ASTM D3763 (energy at peak load)	in-lbf	189
High Speed Puncture, Dynatup, 23°C	ASTM D3763 (energy at peak load)	Joules	21.4
Thermal			
Coefficient of Thermal Expansion	ASTM E831	1/°F	38.5 x 10 ⁻⁶
Coefficient of Thermal Expansion	ASTM E831	1/°C	69.3 x 10 ⁻⁶
Flammability			
OSU total heat release (2 min test)	FAR 25.853	kW-min/m ²	<55
OSU total heat release (peak)	FAR 25.853	kW/m ²	<55
Vertical Burn a(60s)	FAR 25.853	sec	Pass
Vertical Burn b(12s)	FAR 25.853	sec	Pass
NBS Smoke Density, Flaming,Dmax	ASTM E662	--	<50
OEM Toxicity	BSS 7239		Pass

Variations within normal tolerances are possible for various colors. If minimum certifiable properties are required please contact your local Sabic IP representative. All values are measured at least after 48 hours storage at 23°C/50% relative humidity.

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PRODUCT AVAILABILITY

Lexan* XHR5000 sheet is normally manufactured in the standard configurations below;

Manufacturing Location: Mt Vernon, IN

Standard gauges: 0.040"

Standard Size: 4x8' (web width)

Textures: XHR5000 (matte/polish)

Masking: Polyethylene (top/bottom)

Colors: WH8E475 (White)

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