

LEXAN™ F5000 Sheet

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ F5000 sheet is a co-extruded, flame retardant sheet designed for aircraft interior applications. F5000 Sheet is provided with a pigmented 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	Test Method	Units	Value
Physical			
Specific Gravity (Color Dependent)	ASTM D792	g/cm ³	1.2755
Water Absorption, Equilibrium, 24 hrs.	ASTM D570	%	0.28
Gauge Availability		inch	0.042
Mechanical			
Tensile Strength	ASTM D638	psi @ Yield	9,550
Ultimate			7,820
Tensile Modulus	ASTM D638	psi	324,000
Tensile Elongation	ASTM D638	%Ultimate	68
Flexural Strength (Gauge Dependent) 1	ASTM D790	psi	17,000
Flexural Modulus (Gauge Dependent) 1	ASTM D790	psi	456,000
Dynatup Impact Strength, ½" diameter (Gauge Dependent) 1	ASTM D3763	ft-lbs @ 75°F	10
Gardner Impact Strength, round tip (Gauge Dependent) 1	ASTM D3029	in-lbs @ 75°F	240
Rockwell Hardness, R	ASTM D785		111
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	2.75 x 10 ⁻⁵
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	373
Mold Shrinkage		in/in	.007-.010
Flammability			
FAR 25.853, Appendix F			
Vertical Burn	Part 1, (a),1,(ii): 12 sec.		Pass
Smoke Density	Part V		Pass
Toxicity			
Boeing	BSS 7239		Pass
Airbus	ABD 0031		Pass

- ◆ These property values have been derived from Lexan* resin data for the material used to produce this sheet product
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