

CLEAR LEXAN™ XHR2HC2 COATED SHEET

PRODUCT DATASHEET

DESCRIPTION

CLEAR LEXAN™ XHR2HC2 sheet is dual hard coated sheet using SABIC's MARGARD™ coating, offering transparency, high impact resistance, good stiffness and strength, mar- and abrasion-resistance, and excellent heat release and flammability characteristics, making it an excellent candidate for the transportation applications, especially for the aircraft interiors.

TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Sheet thickness availability	Sabic Internal	mm	1.5-3.2
Specific gravity	ASTM D792	g/cm ³	1.31
Light transmission, 2 mm	ASTM D1003	%	81
Refractive index	Sabic Internal		1.62
Rockwell hardness	ASTM D785		M78,R126
Water absorption, equilibrium	ISO 62	%	0.15
MECHANICAL			
Tensile strength at Yield	ASTM D638	MPa	78.7
Nominal strain at Break	ASTM D638	%	11.0
Tensile strain at Break	ASTM D638	MPa	63.6
Modulus of Elasticity	ASTM D638	MPa	2575
Elongation at Yield	ASTM D638	%	6.2
Elongation at Break	ASTM D638	%	7.2
Taber haze - 100 cycles, 500 gram, CS-10F	ASTM D1044	%	4 - 6
Taber haze - 500 cycles, 500 gram, CS-10F	ASTM D1044	%	6 - 8
THERMAL			
Vicat softening Temperature, 50N, 120°C/h	ASTM D1525	°C	136
Heat deflection Temperature, 1.82 MPa	ASTM D648	°C	129
Thermal conductivity	ASTM C177	W/m.°C	0.2
Coefficient of thermal expansion	ISO 11359-2	1/°C	5.6x10 ⁻⁵
Mold Shrinkage	Sabic Internal	%	0.6 - 0.8
IMPACT			
Izod impact, notched 23°C	ISO 180/1A	kJ/m ²	28
Izod impact strength, notched -30°C	ISO 180	kJ/m ²	6.4
Ductility	ASTM D256	%	50
Multi Axial Impact Total Energy, 23°C	ASTM D3763	J	48.6
FIRE RATINGS			
Aircraft			
Vertical Burn, 60 s	FAR 25.583(a) App.F	-	Pass
Smoke density	ABD0031	-	Pass <50
Smoke toxicity	ABD0031, BSS 7239	-	Pass
OSU total heat release, 2 min	FAR 25.583(d) App.F	Kw.min/m ²	Pass <55
OSU peak heat release rate, 5 min	FAR 25.583(d) App.F	kW/m ²	Pass <55

◆ These property values have been derived from LEXAN™ resin data for the material used to produce this sheet product. Variations within normal tolerances are possible for various colors. If minimum certifiable properties are required please contact your local SABIC representative. All values are measured at least after 48 hours of storage at 23°C/50% relative humidity.

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CONTACT US:

Middle East and Africa

SABIC Global Headquarters
PO Box 5101
Riyadh 11422
Saudi Arabia
T +966 (0) 1 225 8000
F +966 (0) 1 225 9000
E info@sabic.com

Email

sfs.info@sabic-ip.com

Americas

Specialty Film & Sheet
1 Plastics Avenue
Pittsfield, MA 01201
USA
Toll-free 1 800 323 3783
T 1 413 448 6655
F (888) 443 2033
E Spinside.sales@sabic-ip.com

Europe

Specialty Film & Sheet
Plasticslaan 1
4612 PX
Bergen op Zoom
The Netherlands
T +31 (0)164 293678
F +31 (0)164 293272
E sfs.info@sabic-ip.com

Asia Pacific

Specialty Film & Sheet
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 21 2037 8188
F +86 21 2037 8288
E sfs.info@sabic-ip.com

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