



LEXAN™ SL4855 SHEET

PRODUCT DATASHEET

DESCRIPTION

Mar/UV-resistant LEXAN™ SL4855 sheet combines the impact strength of LEXAN polycarbonate sheet with a proprietary abrasion/UV resistant surface that approaches glass in performance. LEXAN SL4855 sheet with MARGARD coating backed by a fifteen-year limited warranty against yellowing, abrasion resistance, breakage, loss of light transmission, and coating failure provided that installation guidelines outlined in SABIC SL4855 System Guidelines are met. LEXAN SL4855 sheet's unique coating is graffiti resistant enabling restoration to a like-new condition. LEXAN SL4855 sheet is for transparent applications only. Because of its high mar-resistant surface, paint, adhesives and other materials will not adhere to its surface. The coating is applied to both sides, therefore helps eliminate second-surface decoration. Also due to its mar-resistant coating, LEXAN SL4855 sheet cannot be cold-formed. LEXAN SL4855 sheet is manufactured with strict dimensional and ripple tolerances and supplied with ripple orientation.

TYPICAL PROPERTY VALUES ◆

PROPERTY	TEST METHOD	UNITS	VALUE
Physical			
Specific Gravity (color dependent)	ASTM D792	-	1.20
Chemical Resistance	ANSI Z26.1	-	Passes#
Mechanical			
Tensile Strength, Ultimate	ASTM D638	psi	9,500
Flexural Strength	ASTM D790	psi	13,500
Flexural Endurance @ 1,800 Cycles/Min, 73°F, 50% RH	ASTM D671	psi	1,000
Compressive Strength	ASTM D696	psi	12,500
Modulus of Elasticity	ASTM D638	psi	345,000
Drop Ball Impact Strength‡	SABIC Test	ft-lbs	
@ 73°F			>200
@ 32°F			>200
@ 0°F			>200
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x10 ⁻⁵
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	270
Flammability			
Horizontal Burn (Flame Spread)	ASTM D635	in	
AEB			<1
Ignition Temperature	ASTM D1929	°F	
Flash			873
Self			1,076

◆ These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local SABIC representative.

‡ 5-lb steel ball dropped from a height of 40 feet

™ Trademarks of SABIC.

£ Request details of limited ten-year warranty plus cleaning and maintenance instructions.

Gasoline and kerosene - no tackiness, crazing or loss of transparency for a minimum of 48 hours.

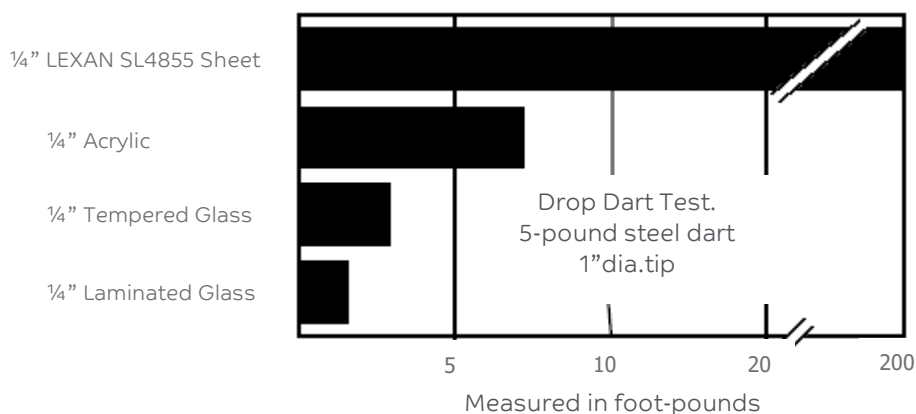
ABRASION RESISTANCE COMPARISON

LEXAN SL4855 sheet exhibits significantly less hazing than uncoated polycarbonate sheet as shown in the abrasion resistance chart.

			% Haze	
	Test Method	Uncoated Polycarbonate	LEXAN SL4855 Sheet	Glass
Taber Abrasion 100 Cycles CS 10F	ASTM D1044 Z26.1	35.0	1-3	0.5

‡ The Taber Abrader test measures the percent of change in haze that results from the grinding action of two abrasive impregnated wheels on the test samples. A constant load of 500 grams is maintained as the samples rotate on a turntable for a predetermined number of revolutions.

IMPACT RESISTANCE



OPTICAL (Clear - 112)

	Gauge	Test Method	Typical Value
Light Transmission	0.118	ASTM D1003	88%
Light Transmission	0.236	ASTM D1003	85%
Light Transmission	0.500	ASTM D1003	80%

CODE COMPLIANCE

- New York Office of Mental Health Approved by New York Office of Mental Health.

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