

# LEXAN™ 9440/9444 SHEET

## PRODUCT DATASHEET

### DESCRIPTION

LEXAN™ 9440/9444 uncoated polycarbonate sheet is formulated to meet the requirements of specialty applications as food handling/contact, medical device/apparatus, and other clean room needs. LEXAN 9440/9444 sheet complies with FDA food additive regulations (21 CFR 177.1580) and meets USP-VI criteria. LEXAN 9440/9444 sheet offers high impact performance, thermoform ability, transparency and dimensional stability.

### TYPICAL PROPERTY VALUES ◆

PROPERTY	TEST METHOD	UNITS	VALUE
<b>Physical</b>			
Specific Gravity	ASTM D792	-	1.20
Water absorption, equilibrium, 24 Hrs.	ASTM D570	%	0.15
@ 73° F			0.35
@ 212° F			0.58
Light Transmission (avg.) 1/8" disk	ASTM D1003	%	88
<b>Mechanical</b>			
Tensile Strength	ASTM D638	psi	
@ Yield			9,000
@Ultimate			9,500
Elongation	ASTMD638	%	110
Tensile Modulus	ASTM D638	psi	345,000
Flexural Modulus	ASTM D790	psi	345,000
Flexural Strength	ASTM D790	psi	13,500
Compressive Strength	ASTM D695	psi	12,500
Compressive Modulus	ASTMD695	psi	345,500
Elongation	ASTM D638	%	110
Izod Impact Strength,	ASTM D256A	ft-lbs/in	
Notched @ 1/8"			12-16
Unnotched @ 1/8"			60 (no failure)
<b>Thermal</b>			
Heat deflection temperature	ASTM D648	°F	
@ 264 psi			270
@ 66 psi			280
Coeff.of Thermal Expansion	ASTM D696	in/in/°F	$3.75 \times 10^{-5}$
Thermal Conductivity	ASTM C177	Btu/hr x ft <sup>2</sup> x °F x in	1.35

- ◆ These property values have been derived from LEXAN™ resin data for the material used to produce this sheet product. Variation within normal tolerances are possible for various colors. These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local SABIC Innovative Plastics representative. All values are measured at least after 48 hours storage at 23°C/50% relative humidity. All properties are measured on injection-molded samples. All samples are prepared according ISO 294.

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