



# LEXAN® 9034 SHEET

## Product Data Sheet

### DESCRIPTION

LEXAN® 9034 uncoated polycarbonate sheet is the standard grade of LEXAN sheet for transparent protective glazing. High-impact LEXAN 9034 sheet can be utilized for primary glazing, or on either side of existing glazing for economical protection against breakage or intrusion. A better insulator than glass, LEXAN 9034 sheet contributes to lower energy costs.

### TYPICAL PROPERTY VALUES\*

Property	Test Method	Units	Value
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	—	1.20
Refractive Index @ 77°F	ASTM D542A	—	1.586
Light Transmission (Average), 1/8" disk	ASTM D1003	%	88
Rockwell Hardness	ASTM D785	—	M70
Abrasion Resistance, Taber Abrader, CS-17 wheel	ASTM D1044	mg/1,000 cycles	10
Water Absorption, Equilibrium, 24 hrs	ASTM D570	%	0.15
@ 73°F			0.35
@ 212°F			0.58
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	psi	
@ Yield			9,000
Ultimate			9,500
Tensile Modulus	ASTM D638	psi	345,000
Flexural Strength	ASTM D790	psi	13,500
Flexural Modulus	ASTM D790	psi	345,000
Flexural Endurance @ 1,800 cycles/min, 73°F, 50% RH	ASTM D671	psi	1,000
Compressive Strength	ASTM D695	psi	12,500
Compressive Modulus	ASTM D695	psi	345,000
Elongation	ASTM D638	%	110
Poisson's Ratio	—	—	0.37
Izod Impact Strength	ASTM D256A	ft-lbs/in	
Notched @ 1/8"			12–16
Unnotched @ 1/8"			60 (no failure)
Tensile Impact Strength, S-Type Specimen	ASTM 1822	ft-lbs/in <sup>2</sup>	225–300
Shear Strength	ASTM D732	psi	
@ Yield			6,000
Ultimate			10,000
Shear Modulus	ASTM D732	psi	114,000
Deformation Under Load @ 4,000 psi	ASTM D621	%	
@ 73°F			0.2
@ 158°F			0.3
<b>THERMAL</b>			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 <sup>-5</sup>
Coefficient of Thermal Conductivity	ASTM C177	Btu•in/hr•ft <sup>2</sup> •°F	1.35
Specific Heat @ 40°C		cal/gm/°C	0.30
Heat Deflection Temperature	ASTM D648	°F	
@ 264 psi			270
@ 66 psi			280
Brittle Temperature	ASTM D746	°F	-211

(Continued on Reverse)

®Registered Trademark of GE

\*These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local GE Plastics Structured Products representative or the GE Plastics Structured Products Quality Services Department.

LEXAN

## TYPICAL PROPERTY VALUES (continued)\*

Property	Test Method	Units	Value
<b>ELECTRICAL</b>			
Dielectric Constant	ASTM D150	—	
@ 10 Hz			2.96
@ 60 Hz			3.17
Volume Resistivity	ASTM D257	ohm-cm	8.2 x 10 <sup>16</sup>
Power Factor	ASTM D150		
@ 60 Hz			0.0009
@ 1,000,000 Hz			0.010
Arc Resistance	ASTM D495	sec	
Stainless Steel Strip Electrodes			10–11
Tungsten Electrodes			120
<b>FLAMMABILITY</b>			
Horizontal Burn (Flame Spread) AEB	ASTM D635	in	<1

## For more information call: (800) 451-3147.

Although all information, recommendations, or advice contained herein is given in good faith, no guarantee is made that the same results as those described will be obtained or, as to the effectiveness or safety of any design, and General Electric Company\*, USA, its subsidiaries, affiliates and authorized representatives shall in no event be held responsible for any loss incurred through such use of the products. Each user shall make its own determination of the suitability of the products or any such information, recommendations or advice for its own particular use. The products of General Electric Company, its subsidiaries or affiliates are sold in any event subject to the Conditions of Sale constituting part of the applicable representative or other sales agreement or printed on the back of order acknowledgments or invoices or are available upon request. Nothing in this or any other document or any oral recommendation or advice shall be deemed to alter, vary, supersede, or waive any of the Conditions of Sale. Statements concerning possible or suggested uses of the materials or designs described herein are not to be construed as constituting a license under any General Electric Company or subsidiary or affiliate company patent covering such use or as recommendations for use of such materials or designs in the infringement of any patent.

*\*These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local GE Plastics Structured Products representative or the GE Plastics Structured Products Quality Services Department.*



## GE Structured Products

General Electric Company  
One Plastics Avenue  
Pittsfield, MA 01201

[www.structuredproducts.ge.com](http://www.structuredproducts.ge.com)

® Registered Trademark of General Electric Company

\* Not connected with the English company of similar name.