

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
PHYSICAL Specific Gravity Refractive Index @ 77°F Light Transmission (Average), 1/8" disk Rockwell Hardness Abrasion Resistance, Taber Abrader, CS-17 wheel Water Absorption, Equilibrium, 24 hrs @ 73°F @ 212°F	ASTM D792 ASTM D542A ASTM D1003 ASTM D785 ASTM D1044 ASTM D570	% mg/1,000 cycles %	1.20 1.586 88 M70 10 0.15 0.35 0.58
MECHANICAL Tensile Strength @ Yield Ultimate Tensile Modulus Flexural Strength Flexural Endurance @ 1,800 cycles/min, 73°F, 50% RH Compressive Strength Compressive Modulus Elongation Poisson's Ratio Izod Impact Strength Notched @ 1/8" Unnotched @ 1/8" Tensile Impact Strength, S-Type Specimen Shear Strength @ Yield Ultimate Shear Modulus	ASTM D638 ASTM D638 ASTM D790 ASTM D790 ASTM D695 ASTM D695 ASTM D695 ASTM D638 — ASTM D256A ASTM 1822 ASTM D732	psi psi psi psi psi psi % 	9,000 9,500 345,000 13,500 345,000 12,500 345,000 110 0.37 12–16 60 (no failure) 225–300 6,000 10,000 114,000
Deformation Under Load @ 4,000 psi @ 73°F @ 158°F	ASTM D621	%	0.2 0.3
THERMAL Coefficient of Thermal Expansion Coefficient of Thermal Conductivity Specific Heat @ 40°C Heat Deflection Temperature @ 264 psi @ 66 psi Brittle Temperature	ASTM D696 ASTM C177 ASTM D648 ASTM D746	in/in/°F Btu∙in/hr•ft²•°F cal/gm/°C °F °F	3.75 x 10 ⁻⁵ 1.35 0.30 270 280 -211

(Continued on Reverse)

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*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.

TYPICAL PROPERTY VALUES (continued)*

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

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

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