LEXAN™ 903173U SHEET
PRODUCT DATASHEET

DESCRIPTION
LEXAN™ 903173U is a LEXAN polycarbonate sheet with K12 prismatic texture on one side and a proprietary UV-resistant surface treatment on the polished side that protects it from weathering. LEXAN 903173U is backed by a ten-year limited warranty against loss of light transmission and breakage. Providing long-lasting light transmission over a wide range of weather conditions and environments, LEXAN 903173U sheet improves service life and reduces life-cycle material costs. The K12 texture consists of uniform diagonal 4.5mm female conical prisms, allowing the sheet to offer excellent efficiencies in light transmission while effectively reducing glare. LEXAN 903173U sheet is well suited for all types of vertical glazing and overhead applications such as skylights, covered walkways and barrel vaults.

TYPICAL PROPERTY VALUES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>UNITS</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>ASTM D792</td>
<td>--</td>
<td>1.20</td>
</tr>
<tr>
<td>Light Transmission: Clear 112</td>
<td>ASTM D1003</td>
<td>%</td>
<td>83%</td>
</tr>
<tr>
<td>White 82379</td>
<td></td>
<td></td>
<td>60%</td>
</tr>
<tr>
<td>Rockwell Hardness</td>
<td>ASTM D785</td>
<td>-</td>
<td>M70, R118</td>
</tr>
<tr>
<td>Water absorption, 24 hours</td>
<td>ASTM D570</td>
<td>%</td>
<td>0.15</td>
</tr>
<tr>
<td>Water absorption, Equilibrium</td>
<td>@73°F</td>
<td>%</td>
<td>0.35</td>
</tr>
<tr>
<td>Chemical resistance</td>
<td>ANSI Z26.1</td>
<td></td>
<td>Pass</td>
</tr>
<tr>
<td>Mechanical</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Tensile Strength, Ultimate</td>
<td>ASTM D638</td>
<td>psi</td>
<td>9,500</td>
</tr>
<tr>
<td>Tensile Modulus</td>
<td>ASTM D638</td>
<td>psi</td>
<td>340,000</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>ASTM D790</td>
<td>psi</td>
<td>13,500</td>
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<tr>
<td>Flexural Modulus</td>
<td>ASTM D790</td>
<td>psi</td>
<td>340,000</td>
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<tr>
<td>Compressive Strength</td>
<td>ASTM D695</td>
<td>psi</td>
<td>12,500</td>
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<tr>
<td>Izod Impact Strength, up to 125 mils, Notched Drop</td>
<td>ASTM D256A</td>
<td>ft-lbs-in</td>
<td>12.16</td>
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<tr>
<td>Dart Impact Strength, 1” dia. Dart @ 73°F</td>
<td>SABIC TestE</td>
<td>ft-lbs</td>
<td>&gt;200</td>
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<tr>
<td></td>
<td></td>
<td>@ 0°F</td>
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<tr>
<td>Thermal</td>
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<tr>
<td>Coefficient of Thermal Expansion</td>
<td>ASTM D696</td>
<td>in/in/°F</td>
<td>3.75 x 10⁻⁵</td>
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<tr>
<td>Heat Deflection Temperature@ 264 psi</td>
<td>ASTM D648</td>
<td>°F</td>
<td>270</td>
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<tr>
<td></td>
<td></td>
<td>@ 66 psi</td>
<td>280</td>
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<tr>
<td>Flammability</td>
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<tr>
<td>Horizontal Burn (Flame Spread), AEB</td>
<td>ASTM D635</td>
<td>in</td>
<td>&lt;1</td>
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<tr>
<td>UL Flammability (.060” min.)</td>
<td>UL94</td>
<td></td>
<td>HB¹</td>
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</tbody>
</table>

* 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 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.

¹ Light transmission values may vary by + or –4%.
² Expected value based on this being a LEXAN 9034, XL10 equivalent product.
³ Trademarks of SABIC.

UL File Number: E121562
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PRODUCT AVAILABILITY
LEXAN™ 903173U sheet may be produced in Clear (112) or White Translucent (82379); 0.125 inch gauge, 48 in by 96 in sheet. Masking: Top side (K12 Texture) – None; Bottom side (UV, polished) – poly stick clear. Other sizes may be available upon request.

UV PROTECTION
LEXAN 903173U sheet has a proprietary UV protected surface on the polished side, giving excellent durability to outdoor weathering. When properly installed and maintained, the LEXAN sheet is backed by a 10 years warranty against loss of light transmission and breakage.

CHEMICAL RESISTANCE
LEXAN 903173U sheet has sufficient resistance to most mineral oils, greases, aliphatic hydrocarbons and acids under low or moderate stress levels. Specific application-related testing is always advised, especially where the sheet may be in contact with aggressive chemicals.

ASSEMBLING / PAINTING
Parts made from LEXAN 903173U sheet can be assembled with plastics, metals, rubber and other materials using many types of adhesive bonding, welding and mechanical fastening techniques. Since some of these materials can cause environmental stress cracking, please consult SABIC Innovative Plastics, for advice on specific applications.

CODE COMPLIANCE
LEXAN 903x Sheet is listed as a Burglary-Resisting Glazing Material according to UL Standard 972.

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