**LEXAN™ CLINIWALL™ C6200 SHEET**

**PRODUCT DATASHEET**

**DESCRIPTION**

LEXAN™ CLINIWALL™ sheet is a non-chlorinated and non-brominated opaque sheet, available in standard and custom colours. In addition to good flammability and smoke performance, it offers excellent mechanical properties like impact, stain, blood and urine resistant combined with ease of processing, making it an excellent candidate for a wide range of applications in industries such interior wall cladding and sandwich panel.

**TYPICAL PROPERTY VALUES**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>UNITS</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHYSICAL</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>ISO 1183</td>
<td>g/cm³</td>
<td>1.20</td>
</tr>
<tr>
<td><strong>MECHANICAL</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yield stress 50 mm/min</td>
<td>ISO 527</td>
<td>MPa</td>
<td>&gt;60</td>
</tr>
<tr>
<td>Yield strain 50 mm/min</td>
<td>ISO 527</td>
<td>%</td>
<td>6</td>
</tr>
<tr>
<td>Nominal strain at break</td>
<td>ISO 527</td>
<td>%</td>
<td>&gt;100</td>
</tr>
<tr>
<td>Tensile modulus 1 mm/min</td>
<td>ISO 527</td>
<td>MPa</td>
<td>2300</td>
</tr>
<tr>
<td>Scratch resistance</td>
<td>Pensile Hardness</td>
<td>9H</td>
<td>No scratches</td>
</tr>
<tr>
<td>Flexural Strength (2mm/min)</td>
<td>ISO 178</td>
<td>MPa</td>
<td>90</td>
</tr>
<tr>
<td>Linear thermal expansion, 23-55°C</td>
<td>ISO 11359-2</td>
<td>mm</td>
<td>7x10⁻³ 1/°C</td>
</tr>
<tr>
<td><strong>IMPACT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Izod impact, unnotched 23°C, 3.0 mm</td>
<td>ISO 180/1U</td>
<td>kJ/m²</td>
<td>NB</td>
</tr>
<tr>
<td>Izod impact, notched 23°C, 3.0 mm</td>
<td>ISO 180/1A</td>
<td>kJ/m²</td>
<td>70</td>
</tr>
<tr>
<td><strong>THERMAL</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicat softening temperature, B/120</td>
<td>ISO 306</td>
<td>°C</td>
<td>145</td>
</tr>
</tbody>
</table>

**FIRE RATINGS**

| Building & Construction | EN13501-1 | - | B,s1,d0 |

◆ These property values have been derived from 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, Functional Forms 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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PROCESSING

LEXAN™ CLINIWALL™ sheet is suitable for cold line bending and can be mounted on a wall with a simple glue solution. For details we refer to our processing guide for C6200 sheet.

LEXAN CLINIWALL sheet is suitable for thermoforming. To reach optimal results the material needs to be heated with sandwich type heating systems to reach uniform heat uptake. Pre-drying of this material is necessary. Pre drying at 100°C for 2 hours /mm thickness.

LEXAN CLINIWALL sheet has a processing window between 160 and 200°C. When forming, a draft angle of 3 degrees should be allowed. Post mould shrinkage is dependent on tool temperature and environmental circumstances, but will typically be in the range of 0.5-0.9%.

PRODUCT AVAILABILITY

PRODUCT CODE: LEXAN CLINIWALL C6200 sheet
TEXTURES: Polished/Suede (C6206), Polished/Silk Math (C6205) on request with protective masking
COLORS: WH6G057 (White), BR8G038 (Beige), GY8G179 (Light grey), GN6G033 (Mint green), BL8G009 (Light blue), BL1G038 (Dark blue), GY1G140 (Dark grey), GY7G160 (Medium grey), 86183 (Off white)
SIZES: C6205: Gauges 1.2 and 1.5mm, W – L = 1300 – 3050mm
C6206: Gauges 1.5 and 1.7mm, W – L = 1300 – 3050mm

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