dBcloth Melamine – Safe and Sound ST

dBcloth Melamine ST is a specialized formulation of the dBcloth Safe and Sound product family that has the highest sound absorption characteristics for a multipurpose use. In addition, the ST product meets the E84 Class A Flame/Smoke index requirement of 25/450.

Technical Data

<table>
<thead>
<tr>
<th></th>
<th>Standard</th>
<th>Units</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Color</td>
<td></td>
<td></td>
<td>Light Grey</td>
</tr>
<tr>
<td>Density</td>
<td>EN ISO 845</td>
<td>kg/m³</td>
<td>9 +/- 1.5</td>
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<tr>
<td>Compressive Strength</td>
<td>EN ISO 3386-1</td>
<td>kPa</td>
<td>&gt;9</td>
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<tr>
<td>Tensile Strength</td>
<td>ISO 1798</td>
<td>kPa</td>
<td>&gt;120</td>
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<tr>
<td>Elongation at Break</td>
<td>ISO 1798</td>
<td>%</td>
<td>&gt;18</td>
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<tr>
<td>Thermal Conductivity</td>
<td>DIN EN 12667</td>
<td>mW/mK</td>
<td>0.032-0.038</td>
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<tr>
<td>Max Application</td>
<td>DIN EN ISO 2578</td>
<td>1,000h °C [°F]</td>
<td>&gt;200[392]</td>
</tr>
<tr>
<td>Temperature</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>DIN EN ISO 2578</td>
<td>5,000h °C [°F]</td>
<td>N/A</td>
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<tr>
<td></td>
<td>DIN EN ISO 2578</td>
<td>20,000h °C [°F]</td>
<td>&gt;150[302]</td>
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<tr>
<td>Flammability</td>
<td>UL94</td>
<td>Flame Spread Rating</td>
<td>V-0, HF-1</td>
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<td></td>
<td>ASTM E 84</td>
<td>Flame/Smoke Index</td>
<td>10/55</td>
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<td>ASTM E 662</td>
<td>Ds 4</td>
<td>70 flaming, 39 non flaming</td>
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<td></td>
<td>ASTM E 162</td>
<td>Flame spread index</td>
<td>1.1</td>
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<td></td>
<td>ASTM E 1354</td>
<td>HRR 180 s (kW/m²)</td>
<td>&lt;0.01</td>
</tr>
</tbody>
</table>

Sound Absorption

Sound absorption coefficient of Safe and Sound ST products
(Tested using impedance tube testing method according to ASTM E1050/ISO 10534-2)