DECLARATION OF PERFORMANCE

LEXAN™ EXELL™D Sheet 5mm gauge color 112-5109-713

1. Element allowing identification of the construction product:
   EXELLD

2. Intended use:
   For internal and external use in roofs, walls and ceilings

3. Manufacturer:
   SABIC
   Plasticslaan 1
   4612 PX Bergen op Zoom
   Netherlands
   Tel. +31164293684
   Fax: +31164293272
   Email: ff.info@sabic.com

4. System of Assessment and Verification of Constancy of Performance (AVCP):
   AVCP System 3 for all characteristics

5. In case of the declaration of performance concerning a construction product covered by a harmonized standard:
   WFRGENT (Notified Body 1173), performed testing of the reaction to fire (based on sampling carried out by the manufacturer) under system 3

6. Declared performance:
   All characteristics listed in the table below are determined following harmonized standard EN 16240: 2013 Light transmitting flat solid polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings – Requirements and test.

7. Declared performance:

<table>
<thead>
<tr>
<th>Essential characteristics</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>External fire performance</td>
<td>F&lt;sub&gt;roof&lt;/sub&gt; (NPD)</td>
</tr>
<tr>
<td>Reaction to fire</td>
<td>B, s1, d0</td>
</tr>
<tr>
<td>Resistance to fire</td>
<td>NPD</td>
</tr>
<tr>
<td>Water vapour permeability</td>
<td>3.8 x 10&lt;sup&gt;-5&lt;/sup&gt; mg/m-h-Pa</td>
</tr>
<tr>
<td>Water/air permeability</td>
<td>Pass</td>
</tr>
<tr>
<td>Release of dangerous substances</td>
<td>NPD</td>
</tr>
<tr>
<td>Dimensional tolerances</td>
<td>Pass</td>
</tr>
<tr>
<td>Shatter properties (safe breakability) as:</td>
<td></td>
</tr>
<tr>
<td>- Small hard body impact resistance</td>
<td>Pass</td>
</tr>
<tr>
<td>- Large soft body impact resistance (assembly)</td>
<td>Pass</td>
</tr>
</tbody>
</table>
(deformation behaviour) | NPD
---|---
Direct airborne sound insulation | $R = 28$ dB
Thermal transmittance | NPD
Light transmittance | $\tau_v$
Total solar energy transmittance | $g$
Solar direct transmittance | $\tau_e$

<table>
<thead>
<tr>
<th>Colour</th>
<th>$\tau_v$ (%)</th>
<th>$g$ (%)</th>
<th>$\tau_e$ (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>112</td>
<td>88</td>
<td>NPD</td>
<td>NPD</td>
</tr>
<tr>
<td>5109</td>
<td>49</td>
<td>NPD</td>
<td>NPD</td>
</tr>
<tr>
<td>713</td>
<td>49</td>
<td>NPD</td>
<td>NPD</td>
</tr>
</tbody>
</table>

Resistance to fixings: Method of fixing (see manufacturer’s datasheet)

Durability, as variation (after ageing):
- of yellowness index: $6$ ($\Delta A$)
- of the light transmittance: $7\%$ ($\Delta E$)
- of deformation flexural modulus: NPD
- of tensile strength: NPD

8. The performance of the product identified above is in conformity with the set of declared performance. This declaration of performance is issued in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

P. van den Bleek
Bergen op Zoom, 06-03-2018

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2. www.sabic.com/sfs