Technical properties

**EN 13859-2 Underlays for walls with open joints**

<table>
<thead>
<tr>
<th>Property</th>
<th>Dimension</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straightness</td>
<td></td>
<td>&lt; 30 mm</td>
</tr>
<tr>
<td>Mass per unit area</td>
<td></td>
<td>195 g/m²</td>
</tr>
<tr>
<td>Type of carrier</td>
<td></td>
<td>HD-PE &amp; PP</td>
</tr>
<tr>
<td>Reaction of fire **</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>Water tightness</td>
<td></td>
<td>WI</td>
</tr>
<tr>
<td>Maximum tensile force in MD</td>
<td></td>
<td>410 N / 50 mm</td>
</tr>
<tr>
<td>Maximum tensile force in XD</td>
<td></td>
<td>330 N / 50 mm</td>
</tr>
<tr>
<td>Elongation in MD</td>
<td></td>
<td>14 %</td>
</tr>
<tr>
<td>Elongation in XD</td>
<td></td>
<td>19 %</td>
</tr>
<tr>
<td>Resistance to tearing in MD</td>
<td></td>
<td>300 N</td>
</tr>
<tr>
<td>Resistance to tearing in XD</td>
<td></td>
<td>40 N</td>
</tr>
<tr>
<td>Water vapour transmission (sd)</td>
<td></td>
<td>0,035 m</td>
</tr>
<tr>
<td>Resistance to penetration of air</td>
<td></td>
<td>&lt; 0,1 m²/h · 50 Pa</td>
</tr>
<tr>
<td>Dimensional stability</td>
<td></td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>Flexibility at low temperature</td>
<td></td>
<td>-40°C</td>
</tr>
</tbody>
</table>

**Artificial aging by UV & heat ** (radiation of 5000 hours)

- Tensile strength in MD: -10%
- Tensile strength in XD: -10%
- Elongation MD: -20%
- Elongation XD: -20%
- Resistance to water penetration: W1

**Additional properties**

- Temperature resistance: -40°C / +100°C
- Max. width of joints (A) (vertical & horizontal): 3 cm
- Min width of facade elements (B): B ≥ 2A (see Fig. 1)
- Full UV exposure (as standard underlay): 6 months
- Full UV exposure (for walls with open joints before installation of facade elements): 4 months
- Water column (EN 20811): 3 m
- Reaction to fire **: D-s1, d2
- Windtight: Yes

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We recommend covering Tyvek® UV Facade as soon as possible, but no later than 4 months after fitting, with its final cladding. To seal overlaps we recommend the use of two adhesive tapes below which are compatible with Tyvek® UV Facade:

- Tyvek® Double-sided Tape which has excellent adhesion properties under extreme humidity conditions and a strong initial tack.
- Tyvek® UV Facade Tape which has a high UV resistance, excellent bonding properties, aging and outdoor performance.

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DuPont™ Tyvek® UV Facade

*According to EN 13859:2 for walls with open joints, artificial aging by UV is 3360 hrs (standard wall/roof application) or 3000 hrs!

** when the product is installed on mineralwool, the reaction to fire class D-s1, d2 is achieved (KB-Hoch080796)

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- Tyvek® UV Facade Tape which has a high UV resistance, excellent bonding properties, aging and outdoor performance.
- Tyvek® Double-sided Tape which has excellent adhesion properties under extreme humidity conditions and a strong initial tack.
Long-term performance

Facades with open rainscreen cladding offer new design options, but the insulation and structure still require effective, lifelong protection from the harmful effects of the elements to which it is constantly exposed. In particular UV radiation can compromise the long-term performance of secondary protection membranes.

That’s why DuPont have developed Tyvek® UV Facade, an advanced protective membrane specifically designed to meet the needs of open cladding constructions.

Tyvek® UV Facade ensures optimum protection of the insulation and structure in open or ventilated cladding constructions from sunlight, wind and moisture for up to 50 years.

Unique in its class, Tyvek® UV Facade is the only known protective membrane for open-jointed cladding systems to carry the CE marking, certifying full conformity with the European Union’s rigorous construction products directive. To obtain the CE marking for open cladding use, the membrane has to resist an artificial aging by permanent UV radiation of 5000 hours (for a standard wall/roof application it is 336 hours).

Unique properties:

• Proven long-term UV resistance (only membrane with publicly available CE marking for open cladding use)
• 10-years warranty for joint width of up to 3 cm
• Lifespan of over 50 years for joint width of up to 2 cm
• Wind-tight, water-tight but vapour-open
• Suitable for open or ventilated cladding in timber, metal, stone and other materials
• Extremely lightweight, flexible and easy to install
• Can be left uncovered for up to 4 months while retaining full performance

Tyvek® has a proven track record

• Exceptional moisture management properties
• High vapour-permeability for maximum “breathability”
• Easy to install – difficult to damage
• Outstanding durability backed by rigorous performance testing
• Guaranteed long term performance

The uniqueness of Tyvek®

Made from extremely tough, flexible, lightweight flash-spunbonded polyolefin, the DuPont™ Tyvek® family of membranes offers peak protection during construction and throughout the lifespan of a building.

Combining class-beating performance with the highest level of protection against the damaging effects of UV radiation, Tyvek® UV Facade is another example of the ongoing commitment of DuPont to develop next-generation building products that meet the performance challenges of today’s modern designs.