## Technical data

**noraplan® signa, surface: smooth**

<table>
<thead>
<tr>
<th>Test method</th>
<th>Requirements</th>
<th>Average test results from running production</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE conformity</td>
<td>EN 14041</td>
<td>Manufacturer: nora systems GmbH, D-69469 Weinheim</td>
</tr>
<tr>
<td>DoP-No.</td>
<td>EN 14041</td>
<td>0016</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>EN 10456 ( \lambda = 0.17 \text{ W/(m·K)} )</td>
<td>Fulfilled Suitable for underfloor heating systems</td>
</tr>
<tr>
<td>Dynamic coefficient of friction</td>
<td>EN 13893</td>
<td>DS</td>
</tr>
<tr>
<td>Reaction to fire</td>
<td>EN 13501-1</td>
<td>Not bonded</td>
</tr>
<tr>
<td>Reaction to fire</td>
<td>EN 13501-1</td>
<td>Bonded on mineral subfloor</td>
</tr>
</tbody>
</table>

### Properties acc. to EN 1817

- **Thickness**
  - EN ISO 24346
  - Mean value \( \pm 0.15 \text{ mm acc. to EN 1817} \)
  - 3.0 mm

- **Dimensional stability**
  - EN ISO 23999
  - \( \pm 0.3 \% \)

- **Cigarette-burn resistance**
  - EN 1398
  - Procedure A (stubbed out) \( \geq \) level 4
  - Procedure B (burning) \( \geq \) level 3
  - Fulfilled

- **Flexibility**
  - EN ISO 24 344, procedure A
  - Mandrel diameter 20 mm, no fissuring
  - –

- **Hardness**
  - ISO 48-4
  - \( \geq 75 \text{ Shore A acc. to EN 1817} \)
  - 92 Shore A

- **Residual indentation**
  - EN ISO 24343
  - Mean value \( \pm 0.20 \text{ mm at thickness } \geq 2.5 \text{ mm} \)
  - 0.03 mm

- **Abrasion resistance at 5 N load**
  - ISO 4649, procedure A
  - \( \leq 250 \text{ mm}^3 \)
  - 150 mm³

- **Colour fastness to artificial light**
  - ISO 105-B02, procedure 3, test conditions 6.1 a)
  - At least level 6 on the blue scale;
  - \( \geq \) level 3 on the grey scale
  - Grey scale \( \geq \) level 3 acc. to ISO 105-A02

- **Classification**
  - EN ISO 10874
  - Commercial / Industrial
  - 34 / 43

### Additional technical properties

- **Toxicity of fire gases**
  - DIN 53436
  - Carbonisation gases are non-toxic
  - DIN 51130
  - Acc. to BGR 181
  - R 9

- **Anti-slip properties**
  - DIN 5087
  - BS 7976
  - TRRL Pendulum
  - SATRA TM 144
  - –

- **Improvement in footfall sound absorption**
  - ISO 10140-3
  - 8 dB

- **Effect of chemicals**
  - EN ISO 26987
  - Resistant depending on concentration and time of exposure*

- **Electrical insulation properties**
  - EN 1081 R1
  - \( > 10^{11} \text{ Ohm} \)

- **Electrical propensity when walked upon**
  - EN 1815
  - Antistatic, charging in case of rubber soles
  - \( < 2 \text{ kV} \)

- **Effect of a castor chair**
  - EN 425
  - Suitable if castor wheels, type W, acc. to EN 12529, are used

* In case of increased impact of oils, grease, acids, alkalis and other aggressive chemicals please contact us.

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EN 1817: Specification for homogeneous and heterogeneous smooth elastomer floor coverings

Colour variations due to different production batches as well as technical alterations to improve the product have to be accepted.