Mirel Vratimov a.s., Mourová 114/7, 73932 Vratimov, tel.: +420 596 732 673, fax: +420 596 732 693, IČO: 25912020, DIČ: CZ25912020

CE 12

# MIRELON® PANEL

## PEF - EN 14313 - ST(+) 90 – ST(-) -40 - WS 005 - CL 5 - PH 6,5

## Thermoinsulating strip from polyethylene foam with closed cell structure

**MIRELON® PANEL** is panel designed to insulate walls, ceilings, floors, roofs, water reservoirs, tanks, large-diameter heating and air distribution systems.

**MIRELON® PANEL** is an ideal thermal insulation material for new buildings, adaptations and renovations due to its excellent thermal insulation properties, flexibility and easy workability.

**MISAPPLICATION:**

- **Thermal insulation of low and high pressure steam distribution systems**
- **Outdoor instalation without surface protection against weathering and UV radiation**
- **Instalation in places where the ambient temperature exceeds 90°C**
- **Use of a self-adhesive strip to fastening of a strip with thickness 20 mm or more to vertical surfaces and ceilings**

**Technical data:**

- non-laminated design, can be provided with self-adhesive layer
- panel thickness: 15, 20, 25, 30, 40, 50, 60, 70 a 80 mm (according to EN 14313:2009+A1:2013)
- panel width: 100 cm (according to EN 14313:2009+A1:2013)
- panel lenght: 2 m (according to EN 14313:2009+A1:2013)

**Color:** gray-black, white

### *MIRELON® PANEL – physical properties*

<table>
<tr><th colspan="2">Basic characteristics</th><th colspan="4">Properties</th><th>Harmonized technical specification</th></tr>
<tr><td rowspan="8">Thermal resistance</td><td rowspan="4">Coefficient of thermal conductivity W/m.K</td><td>℃</td><td>$\lambda_D$</td><td>℃</td><td>$\lambda_D$</td><td rowspan="17">EN 14313:2009+A1:2013</td></tr>
<tr><td>-20</td><td>0,039</td><td>20</td><td>0,049</td></tr>
<tr><td>0</td><td>0,044</td><td>50</td><td>0,057</td></tr>
<tr><td>10</td><td>0,046</td><td>90</td><td>0,069</td></tr>
<tr><td>Dimensions and tolerations</td><td colspan="4"></td></tr>
<tr><td>- panel thickness</td><td>15 mm</td><td>+/- 2 mm</td><td>> 30 mm</td><td>+/- 3,5 mm</td></tr>
<tr><td></td><td>20 - 30 mm</td><td>+/- 2,5 mm</td><td>X</td><td>X</td></tr>
<tr><td>- panel width</td><td colspan="4">Š +/- 1%</td></tr>
<tr><td>- panel lenght</td><td colspan="4">L +/- 1,5%</td></tr>
<tr><td>Reaction on fire</td><td>Reaction on fire</td><td colspan="4">F-s3, d2</td></tr>
<tr><td rowspan="6">Thermal resistance stability in aging/degradation</td><td>Coefficient of thermal conductivity W/m.K</td><td colspan="4">see table above</td></tr>
<tr><td>Dimensions and tolerations</td><td colspan="4">see table above</td></tr>
<tr><td>Dimension stability</td><td colspan="4">3%</td></tr>
<tr><td>Characteristic stability</td><td colspan="4">it does not change</td></tr>
<tr><td>Lowest operating temperature</td><td colspan="4">-40℃</td></tr>
<tr><td>Highest operating temperature</td><td colspan="4">90℃</td></tr>
<tr><td rowspan="3">Thermal resistance stability at high temperature</td><td>Characteristic stability</td><td colspan="4">it does not change</td></tr>
<tr><td>Dimension stability</td><td colspan="4">3%</td></tr>
<tr><td>Highest operating temperature</td><td colspan="4">90℃</td></tr>
</table>

*NPD – no property has been determined*

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| Basic characteristics | | Properties | Harmonized technical specification |
|---|---|---|---|
| Stability of reaction on fire at high temperature | Characteristic stability | it does not change | EN 14313:2009+A1:2013 |
| Stability of reaction on fire in aging/degradation | Characteristic stability | it does not change | |
| Compressive strengh | - | NPD | |
| Water permeability | Water absorption | WS 005 ($W_p \leq 0,05$) | |
| Water vapor permeability | Water absorption | NPD | |
| | Diffusion resistance | NPD | |
| Release of corrosive substances | Trace amount of soluble ions and pH | CL 5 (≤ 5 mg/kg), PH 6,5 | |
| Sound absorption index | Structure sound transmission | NPD | |
| | Sound absorption | NPD | |
| Release of hazardous substances into internal environment | Release of hazardous substances | NPD | |
| Burning by incadescent glow | Burning by incadescent glow | NPD | |

*NPD – no property has been determined*

The technical datasheet was drawn up on the basis of the protocols of the notified bodies: no. 1023 (Institut pro testování a certifikaci a.s., třída Tomáše Bati 299, Louky, 763 02 Zlín) a no. 1390 (Centrum stavebního inženýrství a.s., ul. Pražská 16, 102 00 Praha 10).

Approved 18. 12. 2024

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1023, 1390

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EN 14313+A1

**MIRELON® PANEL**

Thermal insulation products for use as thermal insulation for equipment, buildings and industrial installation

ThIBEII

Coefficient of thermal conductivity W/m.K

| °C | $\lambda_D$ | °C | $\lambda_D$ |
|---|---|---|---|
| -20 | 0,039 | 20 | 0,049 |
| 0 | 0,044 | 50 | 0,057 |
| 10 | 0,046 | 90 | 0,069 |

reaction on fire F-s3, d2

panel thickness *see table below*

PEF - EN 14313 - ST(+) 90 - ST(-) -40 - WS 005 - CL 5 - PH 6,5

**panel thickness**

**15, 20, 25, 30, 40, 50, 60, 70 a 80 mm**