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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>λ_D</td><td>℃</td><td>λ_D</td><td rowspan="20">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></td><td></td><td></td><td></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 25. 5. 2022

CE

1023, 1390

Mirel Vratimov a.s.

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POV 12/2022/EN

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

℃	λ_D	℃	λ_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