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® STRIP

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

## Thermoinsulating strip from polyethylene foam with closed cell structure

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

**MIRELON® STRIP** 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
- strip thickness: 2, 3, 4, 5, 6, 8, 10, 15, 20, 30, 40 a 50 mm (according to EN 14313:2009+A1:2013)
- strip width: 100 to 150 cm according to strip thickness (according to EN 14313:2009+A1:2013)
- strip lenght: 2 až 700 m according to strip thickness (according to EN 14313:2009+A1:2013)

**Color:** gray-black, white

### *MIRELON® STRIP– physical properties*

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

*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 amounts 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 the internal environment | Release of hazardous substances | NPD | |
| Burning by incadescent glow | Burning by incadescent glow | NPD | |

*NPD – no property has been detemined*

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 30.10.2020

CE

1023, 1390

**Mirel Vratimov a.s.**

**Mourová 114/7, 739 32 Vratimov**

12

POV 5/2020/EN

EN 14313+A1

**MIRELON® STRIP**

Thermal insulation product for use as thermal insulation for equipment, buildings and industrial installations

ThIBEII

Coefficient of thermal conductivity W/m.K

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

| | |
|---|---|
| reaction on fire | F-s3, d2 |
| strip thickness | *see table below* |

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

**strip thickness:**

**2, 3, 4, 5, 6, 8, 10, 15, 20, 30, 40 a 50 mm**