



MIRELON® STRIP + LDPE vapor barrier

PEF - EN 14313 - ST(+) 90 - ST(-) -40 - WS 005 - MU 15000- CL 5 - PH

Thermoinsulating strip from polyethylene foam with closed cell structure

MIRELON® STRIP + LDPE vapor barrier is strip designed to insulate walls, ceilings and roofs.

MIRELON® STRIP + LDPE vapor barrier 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 installation without surface protection against weathering and UV radiation
- Installation in places where the ambient temperature exceeds 90°C

Technical data:

- laminated design by LDPE foil with thickness 100 and 200 µ
- strip thickness: 2 and 3 mm (according to EN 14313:2009+A1:2013)
- strip width: 100 cm + overhang of LDPE foil 10 cm (according to EN 14313:2009+A1:2013)
- strip lenght: 25 m (according to EN 14313:2009+A1:2013)

Color: yellow, blue

MIRELON® STRIP + LDPE vapor barrier – physical properties

| Basic characteristics | | Properties | | | | Harmonized technical specification | |
|---|---|----------------------|--|----------------------|--|------------------------------------|--|
| Thermal resistance | Coefficient of thermal conductivity W/m.K | °C -20 0 10 | λ_D 0,039 0,044 0,046 | °C 20 50 90 | λ_D 0,049 0,057 0,069 | EN 14313:2009+A1:2013 | |
| | Dimensions and tolerations | | | | | | |
| | - strip thickness | 2 - 3 mm | +/- 1 mm | X | X | | |
| | - strip width | S +/- 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 | | | | | |
| | Dimension stability | 3% | | | | | |
| | Characteristic stability | it does not change | | | | | |
| | Lowest operating temperature | -40°C | | | | | |
| Thermal resistance stability at high temperature | Highest operating temperature | 90°C | | | | | |
| | Characteristic stability | it does not change | | | | | |
| | Dimension stability | 3% | | | | | |
| | Highest operating temperature | 90°C | | | | | |

NPD – no property has been determined



| 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 strength | - | NPD | |
| Water permeability | Water absorption | WS 005 ($W_p \leq 0,05$) | |
| Water vapor permeability | Water absorption | NPD | |
| | Diffusion resistance | MU 15000 | |
| Release of corrosive substances | Trace amount of soluble ions and pH | CL 5 ($\leq 5 \text{ mg/kg}$), 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 incandescent glow | Burning by incandescent 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

| | | | |
|--|-------------|-----------------|-------------|
|  | | | |
| 1023, 1390 | | | |
| Mirel Vratimov a.s., Mourová 114/7, 739 32 Vratimov tel. 596 732 673, e-mail: mirel@mirelon.com | | | |
| 12 | | | |
| POV 11/2024/EN | | | |
| EN 14313+A1 MIRELON® STRIP + LDPE vapor barrier | | | |
| Thermal insulation products for use as thermal insulation for equipment, buildings and industrial installation | | | |
| TIBELI | | | |
| Coefficient of thermal conductivity W/m.K | | | |
| °C | λ_D | °C | 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 | |
| strip thickness | | see table below | |
| PEF - EN 14313 - ST(+) 90 - ST(-) 40 - WS 005 - CL 5 - MU 15000 - PH 6,5 | | | |
| strip thickness 2 a 3 mm | | | |