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MIRELON® AKUSTIK

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

Thermoacoustic insulation from polyethylene foam with closed cell structure

MIRELON® AKUSTIK is a hose designed for thermoacoustic insulation of water drain.

MIRELON® AKUSTIK 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

Technical data:

- non-laminated design
- wall thickness: 5 mm (according to EN 14313:2009+A1:2013)
- diameter: from 75 to 160 cm (according to EN 14313:2009+A1:2013)
- length: 15 m (according to EN 14313:2009+A1:2013)

Color: blue

MIRELON® AKUSTIK – physical properties

| Basic characteristic | | Properties | | | | Harmonized technical specification |
|---|---|----------------------------|-------------|-------------|-------------|------------------------------------|
| | | °C | λ_D | °C | λ_D | |
| Thermal resistance | Coefficient of thermal conductivity W/m.K | -20 | 0,039 | 20 | 0,049 | EN 14313:2009+A1:2013 |
| | | 0 | 0,044 | 50 | 0,057 | |
| | | 10 | 0,046 | 90 | 0,069 | |
| | | Dimensions and tolerations | | | | |
| | - wall thickness | 5 mm | +/- 1 mm | X | X | |
| - diameter | 75 mm | + 2 to 6 mm | 110-160 mm | + 3 to 8 mm | | |
| - 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 characteristic | | 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 ($W_0 \leq 0,05$) | |
| 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 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 24.3.2020

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| 1023, 1390 | | | |
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| POV 15/2020/EN | | | |
| EN 14313+A1 | | | |
| MIRELON® AKUSTIK | | | |
| Thermal insulation products for use as thermal insulation for equipment, buildings and industrial installation | | | |
| ThIBEII | | | |
| Coefficient of thermal conductivity W/m.K | | | |
| °C | λ_0 | °C | λ_0 |
| -20 | 0,039 | 20 | 0,049 |
| 0 | 0,044 | 50 | 0,057 |
| 10 | 0,046 | 90 | 0,069 |
| reaction on fire | F-s3, d2 | | |
| wall thickness | 5 mm | | |
| PEF - EN 14313 - ST(+)90 - ST(-)40 - WS 005 - CL 5 - PH 6,5 | | | |