



MIRELON® PANEL laminated by PET/PETZ

12 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 laminated by PET/PETZ is panel designed to insulate walls, ceilings, floors, roofs, water reservoirs, tanks, large-diameter heating and air distribution systems. Suitable for insulation in areas where washability is necessary for hygienic reasons (food plants).

MIRELON® PANEL laminated by PET/PETZ 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:

- laminated design, can be provided with self-adhesive layer
- panel thickness: 15, 20, 25, 30, 40, 50, 60, 70 and 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 laminated by PET/PETZ – physical properties

Basic characteristic		Properties				Harmonized technical specification
Thermal resistance	Coefficient of thermal conductivity W/m.K	°C	λ _D	°C	λ _D	EN 14313:2009+A1:2013
		-20	0,039	20	0,049	
		0	0,044	50	0,057	
		10	0,046	90	0,069	
	Dimesions and tolerations - panel thickness					
		15 mm	+/- 2 mm	> 30 mm	+/- 3,5 mm	
	- panel width	20 - 30 mm	+/- 2,5 mm	X	X	
		S +/- 1%				
- panel 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				
	Dimesions and tolerations	see table above				
	Dimension stability	3%				
	Characteristic stability	it does not change				
	Lowest operating temperature	-40°C				
	Highest operating temperature	90°C				
Thermal resistance stability at high temperature	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 ($W_p \leq 0,05$)	
Water vapor permeability	Water absorption	NPD	
	Diffusion resistance	NPD	
Release of corrosive substances	Trace amount of soluble ions and pH	CL 5 ($\leq 5 \text{ mg/kg}$), 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) and no. 1390 (Centrum stavebního inženýrství a.s., ul. Pražská 16, 102 00 Praha 10).

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1023, 1390			
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POV 13/2024/EN			
EN 14313+A1			
MIRELON® PANEL laminated by PET/PETZ Thermal insulation products for use as thermal insulation for equipment, buildings and industrial installation ThIBEL			
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	
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

