

/ Description

The insulation is composed of two layers of cross-linked, closed-cell polyolefin foam.

All product specifications can exhibit thickness variations and reflect average values, which should be used only as technical guidance. The technical data sheet does not eliminate the requirement for direct inspection of the supplied products to confirm their suitability for the intended application, use, or further processing, and must not be taken as a specification.

Due to the insulation's complex form, no nominal thickness can be stated; as a preliminary guideline, consider 1–5 mm for the exterior layer and 6–15 mm for the interior layer.



/ External-layer characteristics

Characteristics of the insulation's external layer, isolated from direct contact with the insulated component:

PROPERTIES	METHOD	UNIT	V
Density	ISO 845	Kg/m ³	80
Compression stress at 10% deflection	ISO 3386/1	kPa	110
Compression stress at 25% deflection	ISO 3386/1	kPa	150
Compression stress at 50% deflection	ISO 3386/1	kPa	260
Elongation at break transversal	ISO 1798	%	160
Elongation at break longitudinal	ISO 1798	%	170
Tensile strength transversal	ISO 1798	MPa	0,6
Tensile strength longitudinal	ISO 1798	MPa	0,8
Compression set 25%, 22h, 23°C, 0,5h	ISO 1856	%	9
Compression set 25%, 22h, 23°C, 24h	ISO 1856	%	1,5
Compression set 50%, 22h, 23°C, 0,5h	ISO 1856	%	30
Compression set 50%, 22h, 23°C, 24h	ISO 1856	%	15
Dimensional stability	ISO 2796	°C	105
Thermal conductivity (40°C)	EN 12667	W/mK	0,0494
Fire behaviour [B2]	DIN 4102	class	B2
Flammability (<100 mm/min)	ISO 3795	thickn. mm	NBR*
Flammability	UL 94	class	HF-2

*material that self-extinguishes almost immediately.

/ Interior-layer characteristics

Characteristics of the insulation's internal layer, which interfaces directly with the thermally insulated component:

PROPERTIES	METHOD	UNIT	V
Density	ISO 845	Kg/m ³	30
Compression stress at 25% deflection	ISO 3386/1	kPa	29
Compression stress at 50% deflection	ISO 3386/1	kPa	85
Tear strength longitudinal	ISO 34-1 A	N/mm	0,63
Tear strength transversal	ISO 34-1 A	N/mm	0,68
Tensile strength longitudinal	ISO 1798	MPa	0,28
Tensile strength transversal	ISO 1798	MPa	0,21
Elongation at break longitudinal	ISO 1798	%	170
Elongation at break transversal	ISO 1798	%	200
Thermal conductivity (40°C)	EN 12667	W/mK	0,041
Water absorption (24h)	ISO 2896	Vol.%	<1
Compression set 25%, 22h, 23°C, 0,5h	ISO 1856	%	20
Compression set 25%, 22h, 23°C, 24h	ISO 1856	%	12
Compression set 50%, 22h, 23°C, 0,5h	ISO 1856	%	44
Compression set 50%, 22h, 23°C, 24h	ISO 1856	%	33
Dimensional stability	ISO 2796	°C	85
Fire behaviour [B2]	DIN 4102	class	B2
Water vapour diffusion coefficient	ISO 12572	μ	1300
Flammability	UL 94	class	HF-1



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