



### Technical data

		Material
Fleece		Polypropylene
Membrane		Polyethylene copolymer


  

Property	Regulation	Value
Colour		White-transparent
Surface weight	EN 1849-2	85 g/m <sup>2</sup> ; 0.28 oz/ft <sup>2</sup>
Thickness	EN 1849-2	0.25 mm ; 10 mils
Water vapour resistance factor $\mu$	EN 1931	56 000
sd value	EN 1931	14 m
sd value, humidity-variable	EN ISO 12572	0.25 - >25 m
g value		70 MN-s/g
g value, humidity-variable	EN ISO 12572	1.25 - >125 MN-s/g
Vapour permeance	ASTM E96-A	0.23 perms
Vapour permeance, humidity-variable	EN ISO 12572	< 0.13 - 13 perms
Hydrosafe value (sd)	DIN 68800-2	2 m
Surface burning characteristics	ASTM E84	Class A (Flame Spread 0; Smoke development index 35)
Fire rating	EN 13501-1	E
Airtightness	ASTM E2178	$\leq$ 0.004 cfm/ft <sup>2</sup>
Airtightness	EN 12114	tested
Tensile strength MD/CD	EN 12311-2	110 N/5 cm / 80 N/5 cm ; 13 lb/in / 9 lb/in
Elongation MD/CD	EN 12311-2	40% / 35%
Nail tear resistance MD/CD	EN 12310-1	60 N / 60 N ; 13 lbf / 13 lbf
Durability after artificial ageing	ETA-18/1146	Passed
Temperature resistance		Permanent -40 °C to 80 °C ; -40 °F to 176 °F
Thermal conductivity		0.04 W/(m·K) ; 0.3 BTU-in/(h·ft <sup>2</sup> ·°F)
CE labelling	ETA-18/1146	Yes

### Areas of application

Vapour check (*alternate terms*: vapour control or retarder) membrane for use on roofs, walls, ceilings and floors on structures that are open or closed to diffusion on the exterior, e.g. flat/steep roofs and green roofs, after appropriate design calculations have been carried out.

### Supply forms

Art. no.	GTIN	Length	Width	Folded	Contents	Weight	Sales unit	Container
10077	4026639011985	50 m	3 m		150 m <sup>2</sup>	14 kg	1	20
10090	4026639011190	50 m	1.5 m		75 m <sup>2</sup>	7 kg	1	20
10091	4026639011176	20 m	1.5 m		30 m <sup>2</sup>	3 kg	1	42
12221	4026639122216	50 m	3 m		150 m <sup>2</sup>	14 kg	1	20

### Advantages

- ✓ Best possible protection against moisture damage to structures and mould because this product is humidity-variable with a variation of a factor of over 100
- ✓ Permanent protection: officially tested and certified performance (ETA-18/1146)
- ✓ Protected winter building sites thanks to hydrosafe® behaviour
- ✓ Can be combined with all fibrous insulation mats and boards
- ✓ Easy to work with: dimensionally stable, no splitting or tear propagation
- ✓ Excellent values in hazardous substance testing, has been tested according to the ISO 16000 evaluation scheme

## General conditions

Where possible, INTELLO should be installed in such a way that adhesion can be carried out using single-sided adhesive tape on the smooth (printed) side of the sheeting. It should be installed taut and without slack either in parallel with or perpendicular to the supporting structure, e.g. the rafters. In the case of horizontal installation (perpendicular to the supporting structure), the separation distance of the supporting structure is limited to a maximum of 100 cm (3'). After installation, perpendicular battens on the inside at a separation distance of a maximum of 50 cm (1' 8") must be fitted to carry the weight of the insulation material.

If regular tensile loads on adhesive tape bonds are to be expected – for example, due to the weight of the insulation material – when using mat or panel-shaped insulation materials, an additional supporting batten should be fitted over the overlap sealing. When attaching the membranes in the case of mat or panel-shaped insulation materials, a maximum separation distance of 10 to 15 cm (4" to 6") applies for the fastening staples, which must be at least 10 mm (3/8") wide by 8 mm (5/16") long. The overlaps between the membrane strips must be approx. 8 to 10 cm (3" to 4").

Airtight seals can only be achieved on vapour check (*alternate terms*: vapour control or retarder) membranes that have been fitted with no folds or creases. Ventilate regularly and systematically to prevent build-up of excessive humidity (e.g. during the construction phase). Occasional, intermittent ventilation is not sufficient to remove large quantities of moisture due to construction work from a building; use a dryer if necessary.

To prevent condensation formation, INTELLO should be sealed and taped in an airtight manner immediately after the installation of the thermal insulation. This particularly applies when working in winter.



Tested for hazardous  
substances according to



The information provided here is based on practical experience and the current state of knowledge. We reserve the right to make changes to the recommended designs and processing or to make alterations due to technical developments and associated improvements in the quality of our products. We would be happy to inform you of the current technical state of the art at the time you use our products.

Further information about installation and design details is available in the pro clima planning documentation. If you have any questions, please contact [pro clima Technical Support](<https://proclima.com/service/technical-support>).

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