ThermaSmart® PRO Sheet

Thermal insulation by Thermaflex

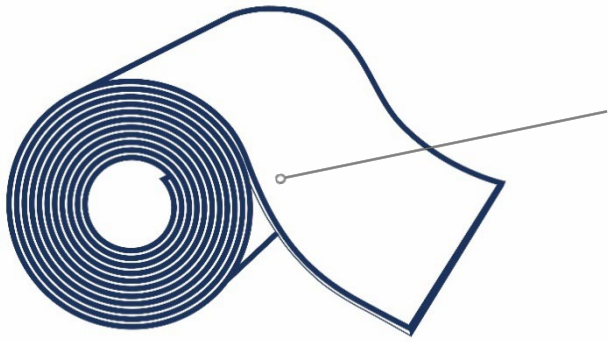
Fully recyclable thermal sheet insulation made of direct-extruded, closed-cell, high-quality thermoplastic polyolefin foam.

Benefits

- Condensation-free, closed-cell barrier prevents moisture damage.
- Excellent fire and smoke classification meets European standards.
- Superior durability, shock-absorbing, crack-resistant material withstands compression.
- Homogeneous welded connections create airtight, vapour-tight joints.
- Low CUI risk protects equipment, reduces maintenance costs, and extends system lifespan significantly.
- Gain points for green building Programme - Cradle to Cradle Certified® Bronze, EPD and REACH compliant.

Applications

- All HVAC-R systems: heating, cooling, air conditioning and refrigeration.



Design

Thermoplastic polyolefin foam
durable insulation material

Disclaimer
All recommendations and information provided on this data sheet are based on our knowledge and experience. Product specifications are intended as guidelines. Since conditions of service are beyond our control, users must satisfy themselves that products are suitable for the intended use. No guarantee or warranty is given or implied or that any use of the products will not infringe rights belonging to other parties. We reserve the right to change product design and properties without notification.

Technical properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m^3	18 - 40	-
Structure	-	fine, closed-cell	-
Colour	-	Anthracite*	-
Thermal properties			
Service temperature range	°C	-80 to +95	EN 14706, EN 14313
Thermal conductivity (λ)	W/m·K	0.034 @ 0°C 0.038 @ 40°C	EN 12667
Fire properties			
SBI classification	-	B s2, d0	EN 13501-1
Fire rating	-	HF-1	UL94
Water resistance properties			
Water vapour diffusion	μ	≥ 5.300	EN 12086, EN 13459
Water absorption	-	WS005	ISO 29767

*Colour, cell size and surface structure may vary between production batches.

Availability

- Standard rolls, width 970 mm (960 – 980 mm).
- Short rolls, width 970 mm (960 – 980 mm).

Item code	Wall thickness [mm]	Content [m2]	Measures
Rolls, width = 970 mm*			
3200-007100-004	7.5 (6.0-9.0)	100	1m x 100m roll**
3200-010100-004	10 (8.5-11.5)	104	1m x 104m roll**
3200-013100-004	13 (11.0-15.0)	78	1m x 78m roll**
3200-019100-004	19 (16.5-21.5)	52	1m x 52m roll**
3200-025100-004	25 (22.5-27.5)	39	1m x 39m roll**
Short rolls, width = 970 mm*			
3200-010100-204	10 (8.5-11.5)	10	1m x 10m roll**
3200-013100-204	13 (11.0-15.0)	8	1m x 8m roll**
3200-019100-204	19 (16.5-21.5)	6	1m x 6m roll**
3200-025100-204	25 (22.5-27.5)	4	1m x 4m roll**

*Sealed sheets 2 × 485 mm.
**A roll may consist of 2 pieces. The total roll length is as stated in the table, plus 1 extra metre as compensation.

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