

ThermaSmart® PRO Sheet

Thermal insulation by Thermaflex®

Fully recyclable thermal sheet insulation made of direct extruded, closed-cell, high quality Thermoplastic Elastomeric foam

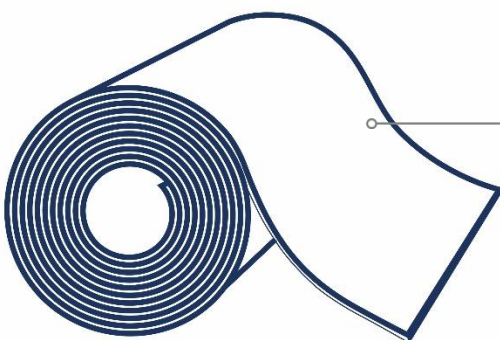


Benefits

- Condensation free system for life-time installed by qualified insulator
- Consistent performance - damage free, robust insulation material
- Safety - Excellent fire and smoke behavior
- Gain point for Green building program - Cradle to Cradle Certified® Bronze, EPD, RoHS

Applications

- All HVAC-R systems: Heating, Cooling, Air conditioning and Refrigeration



Design

Thermoplastic Elastomeric 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-cells	-
Color	-	Anthracite*	-
Thermal properties			
Service temperature range	°C	-80 to +95	-
Maximum service temperature	°C	+95	EN 14706
Thermal conductivity (λ)	W/m·K	0.035 @ 10°C 0.038 @ 40°C	EN 12667
Fire properties			
SBI classification	-	B s2, d0	EN 13501-1
British standard	-	Class 1	BS 476 Part 7
Water resistance properties			
Water vapor diffusion	μ	≥ 5.300	EN 12086
Water absorption	-	WS005	ISO 29767
Mechanical properties			
Compression set	%	56 (50%, 70°C, 22h) 33 (50%, 23°C, 72h) 11 (25%, 23°C, 22h)	EN ISO 1856 (Method A) EN ISO 1856 (Method B) EN ISO 1856 (Method C)
Compressive strength (stiffness)	kPa	14 (10%) 41 (25%) 74 (40%) 108 (50%) 322 (75%)	EN ISO 3386-1
Tensile strength	kPa	30 (horizontal) 53 (vertical)	EN ISO 1798
Shore hardness	Shore 00 Shore 0 Shore A	52 12 8	Average

*color may vary between dimensions.



Availability

- Standard rolls, width 1000 mm (990 – 1010 mm)
- Short rolls, width 1000 mm (990 – 1010 mm)

Item Code	Wall thickness [mm]	Content [m ²]	Measures
Rolls, width = 1000 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 (17.0-21.0)	52	1m x 52m roll**
3200-025100-004	25 (23.0-27.0)	39	1m x 39m roll**
Short rolls, width = 1000 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 (17.0-21.0)	6	1m x 6m roll**
3200-025100-204	25 (23.0-27.0)	4	1m x 4m roll**

* laminated sheet 2 times 500 mm

** roll may consist of two pieces with the total roll length as declared in the table with 1 extra meter as compensation.