

Technical Data Sheet

Kooltherm® HVAC

CFC/HCFC Free Rigid Phenolic (PF) Insulation with a factory applied aluminium foil vapour barrier

General Technical Properties

Property	Test Method	Unit	Typical Value
Nominal Dry Density	EN ISO 845	kg/m ³	35-40
Thermal Conductivity	EN 12667 at +10°C		
	Initial	W/m·K	0.021
	Aged (25 weeks @ 70°C)	W/m·K	0.025
Colour			Grey / Pink
Closed Cell Content	EN ISO 4590 Meth. 1	%	≥ 95
Operating Temperature Limits	Upper Limit	°C	+120
	Lower Limit	°C	-50
Compressive Strength	EN 826 at +23°C		
	Parallel	kPa	≥ 150
	Perpendicular	kPa	≥ 90
Tensile Strength	ASTM D 1623 – Spec. A at +23°C		
	Parallel	kPa	≥ 150
	Perpendicular	kPa	≥ 110
Linear Dimensional Stability	EN 1604		
	+93°C for 24 hours	%	≤ 1
	-30°C for 24 hours	%	≤ 1
Linear Expansion Coefficient	ASTM D 696	K ⁻¹	40-70 x 10 ⁻⁶

Technical Properties of the reinforced vapour barrier foil

Property	Test Method	Unit	Typical Value
Weight	DIN EN ISO 536	gr/m ²	96
Thickness	EDANA	µm	471
Tensile Strength	DIN EN ISO 1924-2 (MD/CD)	N/15mm	> 40 / > 15
Elongation	DIN EN ISO 1924-2	%	< 7
Water vapour transmission	ASTM F 1249	gr/m ² ·24hr	< 0.1

Fire Classifications

Property	Test Method	Typical Result
Euroclass	EN 13501-1	B ₁ - s1, d0
Fire propagation	BS 476-6	Index of performance (I) not exceeding 12 and sub-index (i ₁) not exceeding 6*
Flame spread	BS 476-7	Class 1*
Epiradiateur	NF P 92-501	M1

* These test results combined enable a Class 0 classification to the Building Regulations in England & Wales, Northern Ireland and the Republic of Ireland, and a Low Risk classification to the Building Standards in Scotland.

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