

Technical Data

General Physical Properties (Kooltherm® FM Insulation System)

Property	Test Method	Unit	Typical Value			
Nominal Density	EN ISO 845	kg/m ³	35-40	60	80	120
Thermal Conductivity	EN 14314	W/m·K	0,025	0,032	0,036	0,045
	Declared Value: 10°C		See	See	See	See
	Declared λ-curve (T)	W/m·K	DoP	DoP	DoP	DoP
Colour			Pink/Gray	Pink/Gray	Gray	Gray
Operating Temperature:						
	Upper Limit	°C	+110	+110	+110	+110
	Lower Limit	°C	-50	-50	-50	-50
Minimum Compressive Strength at +23°C	EN 826					
	Parallel	kPa	150	320	470	1000
	Vertical	kPa	90	180	340	800

General Physical Properties (Vapour Barrier Jacket)

Property	Test Method	Unit	Typical Value
Weight	EN ISO 536	g/m ²	101
Thickness	EDANA	µm	310
Tensile Strength MD/CD	EN 12311-2 MD/CD	N/50 mm	> 140 / > 80
Water Vapour Transmission	ASTM F 1249	g/m ² .24 uur	0,1

Fire Test Classifications (Kooltherm™ FM Insulation)

Property	Test Method	Typical Result
Reaction to fire	EN 13501-1	B ₁ - s1, d0
Surface Burning Characteristics	ASTM E 84	Class A/1 Index Flame spread ≤ 25 and smoke development speed ≤ 50)

Conformity

Norm	Description	Conformity Level
EN 143141	Products produced from phenolic foam - Specification	Full compliance. Refer to DoP and CE mark for details
FM 4924	Approval for pipe insulation	FM-certified
Eurofins "Indoor Air Comfort" IAC	Eurofins Indoor Air Comfort-certification Gold version 5.3a	IAC Gold-certified
ASTM C1126	Standard Specification for Faced or Unfaced Rigid Cellular Phenolic Thermal Insulation	Type III – Grade 1

Kooltherm® FM Pipe insulation products are certified with CE according EN 14314, FM 4924 and Eurofins Indoor Air Comfort Gold.

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