

Technical Data Sheet

Kooltherm[®] Pipe Insulation

Resole Foam (PF) Insulation for HVAC Piping and Equipment

General Technical Properties

Property	Test Method	Unit	Typical Value
Nominal Density	EN ISO 845	kg/m ³	35-40
Thermal Conductivity	EN 14314 Declared at 10°C Declared curve λ(T)	W/m K W/m K	0.025 Refer to DoP
Color			Grey or Pink
Closed Cell Content	EN ISO 4590 (meth. 1)	%	≥ 95
Compressive Strength	EN 826 at +23°C Parallel Perpendicular	kPa kPa	150 90
Tensile Strength	EN 1608 at +23°C Parallel Perpendicular	kPa kPa	150 110
Linear Dimensional Stability	EN 1604 +93°C for 24 hours -30°C for 24 hours	% %	≤ 1 ≤ 1
Service Temperature Limits	Maximal Minimal	°C °C	+110 -50
Water Absorption	ASTM C1126 & ASTM C209	Vol. %	≤ 3
Linear Expansion Coefficient	EN 13471	K ⁻¹	40-70 x 10 ⁻⁶

Vapour Barrier Foil (TR470)

Property	Test Method	Unit	Typical Value
Weight	ISO 536	g/m ²	101
Thickness	EDANA	µm	310
Tensile Strength	EN 12311-2 (MD/CD)	N/50mm	>140 / >80
Elongation	EN 12311-2 (MD/CD)	%	<5.5 / <6
Water vapour transmission	ASTM F 1249	g/m ² .24hr	<0.1

Fire Classifications*




Property	Test Method	Typical Result
Reaction to Fire	EN 13501-1 (TR470 Vapour Barrier Foil)	BL-s1,d0
Classification to UK Building Regulations	BS 476 part 6 & 7	Class O

*other finishes than described may influence reaction to fire

Compliance

Standard	Description	Compliance Level
EN 14314	Thermal insulation products for building equipment and industrial installations - Factory made phenolic foam (PF) products-Specification.	Full compliance. Refer to CE mark for details.
FM 4924	Approval Standard for Pipe and Duct Insulation	FM Approved
Eurofins "Indoor Air Comfort" (IAC) product certification	Eurofins Indoor Air Comfort Gold certification version 5.3a	IAC Gold Certified
ASTM C1126	Standard Specification for Faced or Unfaced Rigid Cellular Phenolic Thermal Insulation	Type III - Grade 1

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