

Technical Data Sheet

Tarecpir[®] M1-CR 45 Pipe Insulation

Polyisocyanurate (PIR) Insulation for Piping and Equipment

General Technical Properties

Property	Test Method	Unit	Typical Value
Density	ASTM D1622 Nominal	kg/m ³	45
	Minimum	kg/m ³	42
Thermal Conductivity	ASTM C518 at +10°C Initial	W/m K	0.021
	Aged (25 weeks @ 23°C)	W/m K	0.023
Color			Green
Closed Cell Content	ASTM D6226	%	≥ 95
Compressive Strength	ASTM D1621 +23°C Parallel	kPa	300
	Perpendicular	kPa	270
Tensile Strength	ASTM D1623 at +23°C Parallel	kPa	470
	Perpendicular	kPa	400
Linear Dimensional Stability	ASTM D2126 +93°C for 24 hours	%	≤ 1
	-30°C for 24 hours	%	≤ 1
	+70°C and 95% RH for 48 hours	%	≤ 3
Temperature Limits	Maximal	°C	+120
	Minimal	°C	-200
Water Absorption	ASTM C591 & ASTM C272 (Proc. A)	Vol. %	≤ 1
Water Vapour Permeability	ASTM E96	Ng/Pa.s.m	≤ 5.5
Linear Expansion Coefficient	ASTM D696	K ⁻¹	40-70 x 10 ⁻⁶

Fire Classifications*




Property	Test Method	Typical Result
Reaction to Fire	EN 13501-1	
	Foam core only	D/D ₁ -s3,d0
	Foam core + T50 vapour barrier	E/E _L
	Foam core + TR200 vapour barrier	E/E _L
Surface Burning Characteristics	ASTM E84 Foam core only	Flame Spread Index: ≤ 25
Horizontal Burning Characteristics	ASTM D1692 Foam core only	Extent of burn: ≤25 mm Extinguishing Time: N/A (Non Burning)

*other finishes than described may influence reaction to fire


Product Standard Compliance

Standard	Description	Compliance Level
EN 14308	Factory made rigid polyurethane foam (PUR) and polyisocyanurate foam (PIR) products. Specification.	Full compliance. Refer to CE mark for details.
ASTM C591	Standard Specification for Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation	Grade 2 – Type II
CINI 2.7.01	Polyisocyanurate (PIR) slabs, sections, segments, for thermal insulation of piping and equipment	Full compliance

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