

Technical Data Sheet

Tarecpir® HD 224

High Density Polyisocyanurate (PIR) Insulation for Load Bearing Applications

**General Technical Properties**

Property	Test Method	Unit	Typical Value	
Density	EN ISO 845	kg/m ³	≥ 224	
Thermal Conductivity	EN 12667 at +10°C Initial Aged (25 weeks @ 70°C) EN14308 at +10°C	W/m K W/m K W/m K	0,040 0,045 Refer to DoP	
Color			Green	
Closed Cell Content	EN ISO 4590 (meth. 1)	%	≥ 95	
Compression Behaviour	EN 826 at +23°C Direction of Rise Cross-machine Direction Machine Direction	kPa kPa kPa	<u>Strength</u> 2950 2750 2750	<u>E-Modulus</u> 80,0.10 ³ 60,0.10 ³ 70,0.10 ³
Tensile Behaviour	EN 1608 at +23°C Direction of Rise Cross-machine Direction Machine Direction	kPa kPa kPa	<u>Strength</u> 2900 2700 2750	<u>E-Modulus</u> 15,0.10 ³ 14,0.10 ³ 14,5.10 ³
Flexural Behaviour	ISO 1209 at +23°C Direction of Rise Cross-machine Direction Machine Direction	kPa kPa kPa	<u>Strength</u> 4000 4500 4250	<u>E-Modulus</u> 80,0.10 ³ 85,0.10 ³ 90,0.10 ³
Linear Dimensional Stability	EN 1604 +93°C for 24 hours -30°C for 24 hours +70°C and 95% RH for 48 hours	% % %	≤ 1 ≤ 1 ≤ 3	
Service Temperature Limits	Maximum Minimum	°C °C	+120 -200	
Water Absorption	ASTM D 2842 - Proc. B	vol. %	5	
Water Vapour Permeability	EN 12086	Ng/Pa.s.m	≤ 5,5	
Linear Expansion Coefficient	EN 13471	K ⁻¹	40-70 x 10 ⁻⁶	

Fire Classifications*

Property	Test Method	Typical Result
Reaction to Fire	EN 13501-1	E/EL
Horizontal Burning Characteristics	ISO 3582	Extent of burn: ≤20 mm Extinguishing Time: N/A (Non Burning)
Vertical Burning Characteristics (Ignitability)	DIN 4102-1	B2

* other finishes than described may influence reaction to fire

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