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	W/m K	0,040	
	Aged (25 weeks @ 70°C)	W/m K	0,045	
	EN14308 at +10°C	W/m K	Refer to DoP	
Color			Green	
Closed Cell Content	EN ISO 4590 (meth. 1)	%	≥ 95	
Compression Behaviour	EN 826 at +23°C		Strength	E-Modulus
	Direction of Rise	kPa	2950	80,0.10^3
	Cross-machine Direction	kPa	2750	60,0.10^3
	Machine Direction	kPa	2750	70,0.10^3
Tensile Behaviour	EN 1608 at +23°C		Strength	E-Modulus
	Direction of Rise	kPa	2900	15,0.10^3
	Cross-machine Direction	kPa	2700	14,0.10^3
	Machine Direction	kPa	2750	14,5.10^3
Flexural Behaviour	ISO 1209 at +23°C		Strength	E-Modulus
	Direction of Rise	kPa	4000	80,0.10^3
	Cross-machine Direction	kPa	4500	85,0.10^3
	Machine Direction	kPa	4250	90,0.10^3
Linear Dimensional Stability	EN 1604			
	+93°C for 24 hours	%	≤ 1	
	-30°C for 24 hours	%	≤ 1	
	+70°C and 95% RH for 48 hours	%	≤ 3	
Service Temperature Limits	Maximum	°C	+120	
	Minimum	°C	-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/E_L
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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