

## Technical Data Sheet

# Tarecpir® HD 120

High Density Polyisocyanurate (PIR) Insulation for Load Bearing Applications



### General Technical Properties

Property	Test Method	Unit	Typical Value	
Density	EN ISO 845	kg/m <sup>3</sup>	120 ±7	
Thermal Conductivity	EN 12667 at +10°C		0,028	
	Initial	W/m K	0,036	
	Aged (25 weeks @ 70°C)	W/m K	Refer to DoP	
	EN 14308 at +10°C	W/m K		
Color			Green	
Closed Cell Content	EN ISO 4590 (meth. 1)	%	≥ 95	
Compression Behaviour	EN 826 at +23°C		<u>Strength</u>	<u>E-Modulus</u>
	Direction of Rise	kPa	1200	22.10 <sup>3</sup>
	Cross-machine Direction	kPa	1000	15.10 <sup>3</sup>
	Machine Direction	kPa	1000	18.10 <sup>3</sup>
Tensile Behaviour	EN 1608 at +23°C		<u>Strength</u>	<u>E-Modulus</u>
	Direction of Rise	kPa	1400	8,5.10 <sup>3</sup>
	Cross-machine Direction	kPa	1200	7,5.10 <sup>3</sup>
	Machine Direction	kPa	1300	8,0.10 <sup>3</sup>
Flexural Behaviour	ISO 12089 at +23°C		<u>Strength</u>	<u>E-Modulus</u>
	Direction of Rise	kPa	1800	40.10 <sup>3</sup>
	Cross-machine Direction	kPa	2300	45.10 <sup>3</sup>
	Machine Direction	kPa	2000	50.10 <sup>3</sup>
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 <sup>-1</sup>	40-70 x 10 <sup>-6</sup>	

### 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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