



Quality insulation
with a personal touch

TECHNICAL DATASHEET NESTAAN® POLYURETHANE FOAMS

NESTAAN® PIR120C5

Appearance	Yellowish or greenish rigid foam.
Availability	Nestaan® PIR (polyisocyanurate) foam is available as block, sheets/slabs or in pre cutted shape such as pipe sections and various profiles. The standard maximal width for blocks and slabs is 125 cm. The length can be ordered up to 2,5 meter. Other dimensions on request.
Application	General high performance insulation material to be used as core material for sandwich panels, industrial insulation such as tanks, pipes, vessels, ships, cold rooms, refrigerated trucks etc.

	Value	Unit	Method
Density	108 – 132	kg/m ³	EN 1602
Thermal conductivity 10°C (λi)	0,025-0,029	W/m.K	EN12667
Initial thermal conductivity 10°C (λ _{90/90})	0,029		EN13165
Aged, diffusion open facings (d <80 mm)	0,035		EN13165
Aged, diffusion open facings (d 80-120 mm)	0,034		EN13165
Aged, diffusion open facings (d >120 mm)	0,033		EN13165
Aged, diffusion tight facings	0,031		EN13165
Compressive strength	> 1100	kPa	EN826
E-Modulus	> 38000	kPa	
Tensile strength	> 900	kPa	EN1607
E-Modulus	> 23000	kPa	
Bending strength	> 1800	kPa	EN12089
E-Modulus	> 36000	kPa	
Closed cell content	> 90	%	ISO 4590
Dimensional stability			EN1604
70°C/90% RV, 48 h. – length+width /thickness	<1,5 / <1,5	%	
-20°C, 48 h. – length+width /thickness	<0,5 / <0,5	%	
Deformation (168 h.) under 40 kPa load at 70°C	<0,5	%	
Fire behaviour			EN13501-1 DIN4102-1
European SBI class	E		
German classification	B2		
Water absorption	< 2	Vol-%	EN12087
Linear expansion coefficient	50-70 · 10 ⁻⁶	m/m.K	
Service temperature	-160 / +120	°C	
Toleration on thickness			



Our recommendations with regard to technical applications, whether verbal, written or through means of testing, are provided to the best of our knowledge. However, they only count as non-committal guidelines, also applicable to the possible protective rights of third parties. They do not dismiss you of the obligation to check the products supplied by us on their suitability for the intended applications or purposes. Application, usage and processing of the products happen outside of our control possibilities and therefore are your own responsibility. Nestaan does not accept any liability for damage caused by the application of our products (damage by third parties and possible consequential damages included). In case a court should conclude liability, the damage of all claims is limited only to the value of the goods that we supplied to you in relation to the damage causing project. The above according to mentioned criteria in our general sales and delivery terms.

02120/201411-1