



Quality insulation
with a personal touch

TECHNICAL DATASHEET NESTAAN® POLYURETHANE FOAMS

NESTAAN® PIR50C5

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 4 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	EN13165
Density	46 - 54	kg/m ³	EN 1602	
Thermal conductivity 10°C (λi)	0,020-0,023	W/m.K	EN12667	
Initial thermal conductivity 10°C (λ _{90/90})	0,024		EN13165	
Aged, diffusion open facings (d <80 mm)	0,030		EN13165	
Aged, diffusion open facings (d 80-120 mm)	0,029		EN13165	
Aged, diffusion open facings (d >120 mm)	0,028		EN13165	
Aged, diffusion tight facings	0,025		EN13165	
Compressive strength	> 300	kPa	EN826	CS(Y)250
E-Modulus	> 10000	kPa		
Tensile strength	> 350	kPa	EN1607	TR150
E-Modulus	> 12000	kPa		
Bending strength	> 500	kPa	EN12089	
E-Modulus	> 8000	kPa		
Closed cell content	> 90	%	ISO 4590	
Dimensional stability			EN1604	DS(70,90)3 DS(-20,-)2
70°C/90% RV, 48 h. - length+width /thickness	<1 / <1,5	%		
-20°C, 48 h. - length+width /thickness	<0,5 / <0,5	%		
Deformation (168 h.) under 40 kPa load at 70°C	<1,0	%		
Fire behaviour			EN13501-1 DIN4102-1	E
European SBI class	E			
German classification	B2			
Water absorption	< 2	Vol-%	EN12087	
Linear expansion coefficient	50-70 . 10 ⁻⁶	m/m.K		
Service temperature	-120 / +120	°C		
Toleration on thickness				T3



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