



Quality insulation  
with a personal touch

## TECHNICAL DATASHEET NESTAAN® POLYURETHANE FOAMS

### NESTAAN® PUR35C5

<b>Appearance</b>	Yellowish rigid foam.
<b>Availability</b>	Nestaan® PUR 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.
<b>Application</b>	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
<b>Density</b>	33 - 37	kg/m <sup>3</sup>	EN 1602	
<b>Thermal conductivity 10°C (λi)</b>	0,020-0,024	W/m.K	EN12667	
Initial thermal conductivity 10°C (λ <sub>90/90</sub> )	0,023		EN13165	
Aged, diffusion open facings (d <80 mm)	0,029		EN13165	
Aged, diffusion open facings (d 80-120 mm)	0,028		EN13165	
Aged, diffusion open facings (d >120 mm)	0,027		EN13165	
Aged, diffusion tight facings	0,025		EN13165	
<b>Compressive strength</b>	> 175	kPa	EN826	<b>CS(Y)175</b>
E-Modulus	> 5000	kPa		
<b>Tensile strength</b>	> 175	kPa	EN1607	<b>TR150</b>
E-Modulus	> 5000	kPa		
<b>Bending strength</b>	> 350	kPa	EN12089	
E-Modulus	> 5500	kPa		
<b>Closed cell content</b>	> 90	%	ISO 4590	
<b>Dimensional stability</b>			EN1604	
70°C/90% RV, 48 h. - length+width /thickness	<1 / <1,5	%		<b>DS(70,90)3</b>
-20°C, 48 h. - length+width /thickness	<0,5 / <0,5	%		<b>DS(-20,-)2</b>
Deformation (168 h.) under 40 kPa load at 70°C	<1,5	%		
<b>Fire behaviour</b>				
Euroclass	E		EN13501-1	<b>F</b>
German classification	B3		DIN4102-1	
<b>Water absorption</b>	< 2	Vol-%	EN12087	
<b>Linear expansion coefficient</b>	50-70 . 10 <sup>-6</sup>	m/m.K		
<b>Service temperature</b>	-100 / +100	°C		
<b>Toleration on thickness</b>				<b>T3</b>



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