

SIREX® PIR-FOAM MARINE QUALITY

Property	Standard	Unit	Value				
			80	100	160	200	250
Foam density	ASTM D 1622	kg/m ³	80	100	160	200	250
Compressive strength*	ASTM D 1621	MPa	1.3	1.9	3.1	4	4.5
Compressive modulus*	ASTM D 1621	MPa	38	51	64	88	107
Tensile strength*	ASTM D 1623	MPa	2.2	3.1	4	4.4	5
Tensile modulus*	ASTM D 1623	MPa	60	69	81	94	110
Flexural strength	ISO 178	MPa	2	2.9	4.3	5.8	6.6
Flexural modulus	ISO 178	MPa	47	70	90	133	155
Shear strength	ASTM C 273	MPa	1.3	1.7	1.8	1.9	2
Shear modulus	ASTM C 273	MPa	27	29	30	37	41
Coefficient of thermal expansion	ISO 11359	10 ⁻⁶ K ⁻¹	7.1	6.9	6.7	6.4	5.8
Deflection temperature, HDT	ISO 75	°C	90	95	115	135	160
Water absorption	ASTM C 272	kg/m ²	0.11	0.11	0.09	0.1	0.08
Closed cell	ASTM D 2856	%	>95	>96	>95	>96	>95
Thermal conductivity, initial value	ASTM C 518	W/mk	0.031	0.035	0.036	0.036	0.04
Dimensional stability	ASTM D 2126	%	<0.3	<0.3	<0.3	<0.2	<0.2
Fire behaviour, surface flammability, Module B certification for marine**	IMO Res. A653 FTP code MSC 61Ann1,Part5		pass	pass	pass	pass	pass
Smoke and toxicity test, Module B certification	MSC 61 Ann.1 part 2		pass	pass	pass	pass	pass
Calorific power; Module B certification	MSC 61 Ann.1 part 5 Par 3.1	MJ/kg	25	24	23.1	23.1	23.1
Working temperature, continuously		°C	130	135	145	145	155
Chemical resistance			Very good to excellent resistance to a wide range of chemicals and solvents				

*Perpendicular to the plane

** With 2 alu faces

Any information in this document is presented to our best knowledge. All properties are based on individual values and should be considered as a guideline, not as a specification. They are in no way legally binding. Further are applicable the general terms of payment and delivery of Imbema Holland B.V. and her affiliated companies, in which, among others, has been taken a restriction of liability. They are registered on October 15th, 1982 at the district-court in Haarlem, The Netherlands. These can be sent on demand.



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