

## Product Information

### ROHACELL® A

#### Polymethacrylimide Foam, Aircraft Grade

ROHACELL® A is a closed-cell rigid foam based on polymethacrylimide (PMI) chemistry, which does not contain any CFC's.

Thanks to stringent quality control and the availability of the extensive documentation ROHACELL® A meets the requirements of aircraft construction and is mostly used in this application field.

Because of its relatively large pore structure, ROHACELL® A is particularly suitable in aerospace applications for prepreg processing, but vacuum infusion processing can also be used at temperatures up to 130°C (266°F) and pressures up to 0.3 MPa (45 PSI).

The following cure methods are suitable: autoclave, vacuum bagged, RTM, VARTM, press and others. Sandwich components using ROHACELL® A as core material can be realized in a single work step (co-curing).

The thermo-formability of ROHACELL® provides a tremendous manufacturing advantage.

ROHACELL® A is also easy to shape by machining.

**For further information, please contact our experts by phone +49 6151 18 1005 or e-mail [rohacell@evonik.com](mailto:rohacell@evonik.com).**

## Properties of ROHACELL® A

Properties	Unit	ROHACELL® 31 A	ROHACELL® 51 A	ROHACELL® 71 A	ROHACELL® 110 A	Standard
Density	kg/m <sup>3</sup>	32	52	75	110	ISO 845
	lbs./cu.ft.	2.00	3.25	4.68	6.87	ASTM D 1622
Compressive strength	MPa	0.4	0.9	1.5	3.0	ISO 844
	psi	58	130	217	435	ASTM D 1621
Tensile strength	MPa	1.0	1.9	2.8	3.5	ISO 527-2
	psi	145	275	406	507	ASTM D 638
Shear strength	MPa	0.4	0.8	1.3	2.4	DIN 53294
	psi	58	116	188	348	ASTM C 273
Elastic modulus	MPa	36	70	92	160	ISO 527-2
	psi	5,220	10,150	13,340	23,200	ASTM D 638
Shear modulus	MPa	13	19	29	50	DIN 53294
	psi	1,885	2,755	4,205	7,250	ASTM C 273
Strain at break	%	3	3	3	3	ISO 527-2
						ASTM D 638

Technical data of our products are typical values for the nominal density.

® = registered trademark

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