

Product Information

ROHACELL® IG/IG-F

Polymethacrylimide Foam

ROHACELL® IG and ROHACELL® IG-F are closed-cell rigid foams based on polymethacrylimide (PMI) chemistry, which do not contain any CFC's.

The "IG" in ROHACELL® IG stands for "Industrial grade." It's the standard product in our range of rigid foams and is suitable for a wide variety of applications in the fields medical, wind energy, automotive or sports.

ROHACELL® IG-F is a foam grade with a finer cell structure but the same mechanical and thermal properties as ROHACELL® IG. Because of the smaller size of its cells, ROHACELL® IG-F takes up less resin at the surface, where the cells have been cut open.

ROHACELL® IG and ROHACELL® IG-F are particularly suitable for prepreg processing, but can also be used in, for example, resin infusion and RTM processes up to temperatures of 130°C and pressures of 0.3 MPa.

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

ROHACELL® IG and ROHACELL® IG-F are 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

Properties of ROHACELL® IG/IG-F

Properties	Unit	ROHACELL® 31 IG/IG-F	ROHACELL® 51 IG/IG-F	ROHACELL® 71 IG/IG-F	ROHACELL® 110 IG/IG-F	Standard
Density	kg/m ³	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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