

ROHACELL® IG/IG-F



ROHACELL® IG and ROHACELL® IG-F products 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 is the standard product in our range of rigid foams and is suitable for a wide variety of automotive, medical and industrial applications.

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.

ROHACELL® IG/IG-F Properties

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

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

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