

Product Information

ROHACELL® WF

Polymethacrylimide Foam

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

ROHACELL® WF has been designed for use primarily in aerospace applications; in addition to conforming to our material specification sheet, it satisfies the usual industry requirements such as MIL and CMS specifications.

ROHACELL® WF rigid foam can be processed at pressures of up to 0.7 MPa and temperatures of up to 130°C. It is therefore highly suited for autoclave prepreg processing and all typical resin infusion processes.

After heat treatment, ROHACELL® WF can even tolerate curing temperatures of 180°C at a pressure of 0.7 MPa.

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

ROHACELL® WF 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

Properties of ROHACELL® WF

Properties	Unit	ROHACELL® 51 WF	ROHACELL® 71 WF	ROHACELL® 110 WF	ROHACELL® 200 WF	Standard
Density	kg/m ³	52	75	110	205	ISO 845
	lbs./cu.ft.	3.25	4.68	6.87	12.81	ASTM D 1622
Compressive strength	MPa	0.8	1.7	3.6	9.0	ISO 844
	psi	116	246	522	1305	ASTM D 1621
Tensile strength	MPa	1.6	2.2	3.7	6.8	ISO 527-2
	psi	232	319	536	986	ASTM D 638
Shear strength	MPa	0.8	1.3	2.4	5.0	DIN 53294
	psi	116	188	348	725	ASTM C 273
Elastic modulus	MPa	75	105	180	350	ISO 527-2
	psi	10,875	15,225	26,100	50750	ASTM D 638
Shear modulus	MPa	24	42	70	150	DIN 53294
	psi	3,480	6,090	10,170	21750	ASTM C 273
Strain at break	%	3.0	3.0	3.0	3.5	ISO 527-2
						ASTM D 638
Heat distortion temperature	°C	205	200	200	190	DIN 53424
	°F	401	392	392	374	

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

® = registered trademark

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