

Product Information

ROHACELL® RIMA

Polymethacrylimide Foam

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

The fine cell structure of ROHACELL® RIMA has been specially designed to ensure the minimum possible uptake of resin. This is approximately 50 g/m², which allows the end weight of the component to remain extremely low. The thermal and thermomechanical properties of the rigid foam are otherwise similar to those of ROHACELL® WF.

ROHACELL® RIMA is particularly well suited for vacuum infusion and RTM processes, where the fine-cell foam can also be used purely as a fly-away tool.

Processing is possible at a pressure of 0.7 MPa and temperatures of up to 130°C. The heat-treated material ROHACELL® RIMA-HT can be used at a temperature of 180°C and pressures of up to 0.7 MPa.

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

For further information, please contact our experts by phone +49 6151 18 1005 or e-mail rohacell@evonik.com

Properties of ROHACELL® RIMA

Properties	Unit	ROHACELL® 51 RIMA	ROHACELL® 71 RIMA	ROHACELL® 110 RIMA	Standard
Density	kg/m ³	52	75	110	ISO 845
	lbs./cu.ft.	3.25	4.68	6.87	ASTM D 1622
Compressive strength	MPa	0.8	1.7	3.6	ISO 844
	psi	116	246	522	ASTM D 1621
Tensile strength	MPa	1.6	2.2	3.7	ISO 527-2
	psi	232	319	536	ASTM D 638
Shear strength	MPa	0.8	1.3	2.4	DIN 53294
	psi	116	188	348	ASTM C 273
Elastic modulus	MPa	75	105	180	ISO 527-2
	psi	10,875	15,225	26,100	ASTM D 638
Shear modulus	MPa	24	42	70	DIN 53294
	psi	3,480	6,090	10,170	ASTM C 273
Strain at break	%	7	7	7	ISO 527-2
					ASTM D 638
Heat distortion temperature	°C	210	210	210	DIN 53424
	°F	410	410	410	

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

® = registered trademark

This information and all technical and other advice are based on Evonik's present knowledge and experience. However, Evonik assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. Evonik reserves the right to make any changes to information or advice at any time, without prior or subsequent notice. Evonik disclaims all representations and warranties, whether express or implied, and shall have no liability for, merchantability of the product or its fitness for a particular purpose (even if Evonik is aware of such purpose), or otherwise. Evonik shall not be responsible for consequential, indirect or incidental damages (including loss of profits) of any kind. It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by other companies is neither a recommendation, nor an endorsement of the corresponding product, and does not imply that similar products could not be used.