

ROHACELL® RIMA



Rigid foam with a fine cell structure

ROHACELL® RIMA is a closed-cell rigid foam based on polymethacrylimide (PMI) chemistry that is completely free of CFC's and specially designed to ensure the minimum possible uptake of resin.

Use less resin. Save weight and costs.

The fine, closed-cell structure of ROHACELL® RIMA provides the unique benefit of allowing a minimal resin uptake of only approx. 50 g/m².

This eliminates excess and unnecessary resin that adds undesirable weight and cost to a finished part. The end weight of the finished component remains extremely low.

Processing and production

ROHACELL® RIMA foam 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 (102 psi) and temperatures up to 130°C (266°F).

Heat-treated ROHACELL® RIMA-HT can be used at a temperature of 180C (356°F) and pressures up to 0.7 MPa (102 psi).

Thermoforming and shaping

ROHACELL® RIMA can be easily thermoformed or CNC machined to meet customer requirements.

High precision, pre-shaped and ready-to-use foam cores in complex or simple geometries can also be supplied by the ROHACELL® Shapes Department.

ROHACELL® RIMA properties

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

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

ROHACELL® is a registered trademark of Evonik Industries and its subsidiaries

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.

Evonik Resource Efficiency GmbH
High Performance Polymers
64293 Darmstadt, Germany
Phone +49 6151 18-1005
E-mail rohacell@evonik.com
www.rohacell.com

Americas
Evonik Foams Inc.
Theodore, Alabama, USA
Phone +1 866 764-6235

Evonik Specialty Chemicals
(Shanghai) Co., Ltd.
Shanghai, China
Phone +86 1391 6212034