

Product Information

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 180 °C (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.

Property	Test Method	Unit	ROHACELL® 51 RIMA	ROHACELL® 71 RIMA	ROHACELL® 110 RIMA
Density	ISO 845	kg/m ³ lbs/ft ³	52 3.25	75 4.68	110 6.87
Compressive Strength	ISO 844	MPa psi	0.8 116	1.7 246	3.6 522
Tensile Strength	ISO 527-2	MPa psi	1.6 232	2.2 319	3.7 536
Tensile Modulus	ISO 527-2	MPa psi	75 10,875	105 15,225	180 26,100
Elongation at Break	ISO 527-2	%	7	7	7
Shear Strength	DIN 53294	MPa psi	0.8 116	1.3 188	2.4 348
Shear Modulus	DIN 53294	MPa psi	24 3,480	42 6,090	70 10,170
Coefficient of Thermal Expansion		1/K*10E-5	4.06	3.40	3.64

Technical data values presented are typical for nominal density, subject to normal manufacturing variations. All ROHACELL® products are closed-cell rigid foams based on polymethacrylimide (PMI) chemistry and contain no CFC's.

FOR MORE INFORMATION

If you have questions or would like to discuss using **ROHACELL® RIMA** in your application, we encourage you to talk with your local ROHACELL® representative.

Visit www.rohacell.com to locate and directly connect with the contact in your region, by phone or email.

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