

## 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/m<sup>2</sup>.

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 ASTM D 1622	kg/m <sup>3</sup> lbs/ft <sup>3</sup>	52 3.25	75 4.68	110 6.87
Compressive Strength	ISO 844 ASTM D 1621	MPa psi	0.8 116	1.7 246	3.6 522
Tensile Strength	ISO 527-2 ASTM D 638	MPa psi	1.6 232	2.2 319	3.7 536
Tensile Modulus	ISO 527-2 ASTM D 638	MPa psi	75 10,875	105 15,225	180 26,100
Elongation at Break	ISO 527-2 ASTM D 638	%	7	7	7
Shear Strength	DIN 53294 ASTM C 273	MPa psi	0.8 116	1.3 188	2.4 348
Shear Modulus	DIN 53294 ASTM C 273	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 above are typical for nominal density, subject to normal manufacturing variations. \*Data values are based on ISO & DIN standard test methods, however ASTM values can be confirmed upon request. 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](http://www.rohacell.com) to locate and directly connect with the contact in your region, by phone or email.

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