## 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  $^{\circ}$ C (266  $^{\circ}$ F).

Heat-treated **ROHACELL® RIMA-HT** can be used at a temperature of 180  $^{\circ}$ C (356  $^{\circ}$ 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 <sup>®</sup> 110 RIMA
Density	ISO 845	kg/m³	52	75	110
	ASTM D 1622	lbs/ft³	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
Tensile Modulus	ISO 527–2	MPa	75	105	180
	ASTM D 638	psi	10,875	15,225	26,100
Elongation at Break	ISO 527-2 ASTM D 638	%	7	7	7
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
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.

# ROHACELL®

#### 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 <u>www.rohacell.com</u> to locate and directly connect with the contact in your region, by phone or email.

#### Disclaimer

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