

Product Information

ROHACELL® XT

FOR THE MOST DEMANDING PROCESS CONDITIONS

ROHACELL® XT is a closed-cell rigid foam based on polymethacrylimide (PMI) chemistry that is completely free of CFC's and is engineered to meet extreme and demanding processing requirements.

PROCESSING AND PRODUCTION

Of all the ROHACELL® grades, it is the grade that is best suited to withstand the most demanding process conditions: curing temperatures of up to 180 °C (356 °F) and pressures as high as 0.45 MPa (65 psi).

After heat treatment, ROHACELL® XT-HT can even be used at temperatures of 190 °C (374 °F) and pressure of 0.7 MPa (102 psi) dependent upon density. Typical curing temperatures of BMI resin system of up to 210 °C (410 °F) can be applied in a pressureless post-cure process.

These extreme properties make ROHACELL® XT the ideal foam for use with BMI resins, among other materials.

ROHACELL® XT foam is suitable for autoclave technologies, vacuum infusion, RTM and VARTM processes.

THERMOFORMING AND SHAPING

ROHACELL® XT can be easily thermoformed or CNC machined to meet customer requirements, bringing tremendous manufacturing advantages.

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® 71 XT	ROHACELL® 110 XT
Density	ISO 845 ASTM D 1622	kg/m ³ lbs/ft ³	75 4.68	110 6.87
Compressive Strength	ISO 844 ASTM D 1621	MPa psi	1.7 246	3.6 522
Tensile Strength	ISO 527-2 ASTM D 638	MPa psi	2.2 319	3.7 536
Tensile Modulus	ISO 527-2 ASTM D 638	MPa psi	105 15,220	180 26,100
Elongation at Break	ISO 527-2 ASTM D 638	%	4	4
Shear Strength	DIN 53294 ASTM C 273	MPa psi	1.4 203	2.1 304
Shear Modulus	DIN 53294 ASTM C 273	MPa psi	42 6,090	63 9,135

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® XT** 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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