

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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