

Product Information

ROHACELL® RIST-HT

FOAM FOR VACUUM INFUSION PROCESSES

ROHACELL® RIST-HT (heat treated) is closed-cell rigid foam based on polymethacrylimide (PMI) chemistry that is completely free of CFC's and specially developed for use as a structural core in connection with vacuum infusion processes. All RIST-HT products are heat treated before delivery to customers.

Its mechanical and thermomechanical properties are similar to those of ROHACELL® WF. Its cell size, however, represents an optimal compromise between low resin uptake – about 50% less than for ROHACELL® WF – and satisfactory bonding of the facings to the core.

PROCESSING AND PRODUCTION

The optimized cell structure of **ROHACELL® RIST-HT** makes it particularly suitable for vacuum infusion and RTM processes, where it can be used at temperatures up to 180 °C (356 °F) with pressures up to 0.7 MPa (102 psi).

THERMOFORMING AND SHAPING

ROHACELL® RIST-HT 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 RIST-HT	ROHACELL® 71 RIST-HT	ROHACELL® 110 RIST-HT
Density	ISO 845 ASTM D 1622	kg/m ³ lbs/ft ³	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	%	3	3	3
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	3.18	3.45	3.43

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® RIST-HT** 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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