

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.

ROHACELL® RIST-HT properties

Property	Standard	Unit	ROHACELL® 51 RIST-HT	ROHACELL® 71 RIST-HT	ROHACELL® 110 RIST-HT
Density	ISO 845	kg/m ³	52	75	110
	ASTM D 1622	lbs/ft ³	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
Elastic Modulus	ISO 527-2	MPa	75	105	180
	ASTM D 638	psi	10,875	15,225	26,100
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
Strain at break	ISO 527,2	%	3	3	3
	ASTM D 638				

Technical data of our products are typical values for the nominal density. All RIST-HT is heat treated before delivery to customer.

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