

Product Information

ROHACELL® RIST

Polymethacrylimide Foam

ROHACELL® RIST is a closed-cell rigid foam based on polymethacrylimide (PMI) chemistry, which does not contain any CFC's.

We have specially developed ROHACELL® RIST for use as a structural core in connection with vacuum infusion processes. 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 foam core.

Its optimized cell structure makes ROHACELL® RIST particularly suitable for vacuum infusion and RTM processes, where it can be used at temperatures of 130°C and up to a pressure of 0.7 MPa. Heat treated ROHACELL® RIST-HT allows safe and stable processing at a temperature of 180°C with pressures of up to 0.7 MPa.

The thermo-formability of ROHACELL® provides a tremendous manufacturing advantage.

ROHACELL® RIST could also easily be shaped by machining.

For further information, please contact our experts by phone +49 6151 18 1005 or e-mail rohacell@evonik.com.

Properties of ROHACELL® RIST

Properties	Unit	ROHACELL® 51 RIST	ROHACELL® 71 RIST	ROHACELL® 110 RIST	Standard
Density	kg/m ³	52	75	110	ISO 845
	lbs./cu.ft.	3.25	4.68	6.87	ASTM D 1622
Compressive strength	MPa	0.8	1.7	3.6	ISO 844
	psi	116	246	522	ASTM D 1621
Tensile strength	MPa	1.6	2.2	3.7	ISO 527-2
	psi	232	319	536	ASTM D 638
Shear strength	MPa	0.8	1.3	2.4	DIN 53294
	psi	116	188	348	ASTM C 273
Elastic modulus	MPa	75	105	180	ISO 527-2
	psi	10,875	15,225	26,100	ASTM D 638
Shear modulus	MPa	24	42	70	DIN 53294
	psi	3,480	6,090	10,170	ASTM C 273
Strain at break	%	3	3	3	ISO 527-2
					ASTM D 638
Heat distortion temperature	°C	205	200	200	DIN 53424
	°F	401	392	392	

Technical data of our products are typical values for the nominal density.

® = registered trademark

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