ROHACELL®

THE CHOICE OF CHAMPIONS ON ROADS, ICE, SNOW AND IN THE WATER

Produce the lightest equipment

An ultra-low-density foam core that controls resin absorption and results in final parts that are lighter than ever.

A perfect fit for the fastest and most efficient co-curing processes

Able to withstand the most extreme pressures and temperatures used in state-of-the-art fast curing processes.

Design freedom

Homogeneous and isotropic core material that is not only ideal for producing parts with thin edges and delicate details but is compatible with all common face sheet resins and adhesives.

Improve part performance

Great mechanical properties in a foam core means your equipment will have excellent in-use durability and a long, reliable part life.

Property	Test Method*	Unit	ROHACELL® 31 IG-F	ROHACELL® 51 IG-F	ROHACELL® 71 IG-F	ROHACELL® 110 IG-F	ROHACELL® 71 SL	ROHACELL® 110 SL
Density**	ISO 845 ASTM D 1622	kg/m³ lbs/ft³	32 ± 7 2.00 ± 0.44	52 ± 12 3.25 ± 0.75	75 ± 15 4.68 ± 0.94	110 ± 21 6.87 ± 1.31	75 ± 15 4.68 ± 0.94	110 ± 21 6.87 ± 1.31
Compressive Strength	ISO 844 ASTM D 1621	MPa psi	0.4 58	0.9 130	1.5 217	3.0 435	1.5 218	3.0 435
Compressive Modulus	ISO 844 ASTM D 1621	MPa psi	17 2,470	43 6,240	73 10,600	120 17,400	76 11,000	123 17,800
Tensile Strength	ISO 527-2 ASTM D 638	MPa psi	1.0 145	1.9 275	2.8 406	3.5 507	3.7 537	6.0 870
Tensile Modulus	ISO 527-2 ASTM D 638	MPa psi	36 5,220	70 10,150	92 13,340	160 23,200	120 17,400	202 29,300
Elongation at Break	ISO 527-2 ASTM D 638	%	N/A	N/A	N/A	N/A	4.0	4.7
Shear Strength	DIN 53294 ASTM C 273	MPa psi	0.4 58	0.8 116	1.3 188	2.4 348	1.4 203	2.3 334
Shear Modulus	DIN 53294 ASTM C 273	MPa psi	13 1,885	19 2,755	29 4,205	50 7,250	33 4,790	58 8,410
Maximum Shear Strain	DIN 53294 ASTM C 273	%	N/A	N/A	N/A	N/A	7.8	7.8
Coefficient of Thermal Expansion	-	1/K*10E-5	5.03	4.71	3.81	3.04	3.85	N/A

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 value can be confirmed upon request. All ROHACELL® products are closed-cell rigid foams based on polymethacrylimide (PMI) chemistry and contain no CFC's. ** Density values are valid for full-size sheets with a minimum thickness of 10 mm (0.39 inch) only. Other density ranges are available upon request.

INTERESTED IN ROHACELL® FOR SPORTS EQUIPMENT?

If you have questions or would like to discuss using a **ROHACELL®** core in your application, talk with your local ROHACELL® representative or contact:

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