

ROHACELL®

The high-end foam for lightweight design and profitability

Genuine lightweight construction

We promise lightweight construction, and we keep that promise. Sandwich structures realize their full potential when their super-light cores prove extremely shear- and pressure-resistant, even at high temperatures—as is the case with ROHACELL® structural foam.

Light and strong

The principle of increasing stiffness of a composite structure by means of sandwich construction is now well established. ROHACELL®, PMI-based structural foam has been used in fiber-composite technology for more than 30 years. And it is by no surprise that ROHACELL® still dominates in the area of high-grade lightweight sandwich construction. ROHACELL®'s success can be attributed to the following:

- Excellent mechanical properties over a wide temperature range, even at low densities
- High temperature resistance up to 220°C
- Unique compressive creep behavior for processing up to 180°C and 0.7 MPa
- Excellent dynamic strength
- Cell sizes that is tailored for each processing method

Added value with ROHACELL®

ROHACELL® in aeronautical applications:

- stable and reliable process
- short curing time
- co-curing
- no water damage
- more net load



ROHACELL® in the automotive industry:

- high temperature resistance for short curing cycles
- lowest weight
- cataphoretic painting temperature stable
- save fuel consumption
- stabilize crash elements

ROHACELL® for railcars:

- FST (with skins)
- lightweight structure
- weight saving for high acceleration

ROHACELL® for antennas and radomes:

- dielectric properties close to air
- high specific properties but almost transparent
- tightest dimension tolerances for best antenna performance

ROHACELL® for medical technology:

- stable and reliable process
- low weight beds for easy handling
- lowest dielectric properties ensure high-quality X-ray and CT patient beds with minimal radiation exposure.

ROHACELL® for sports and leisure:

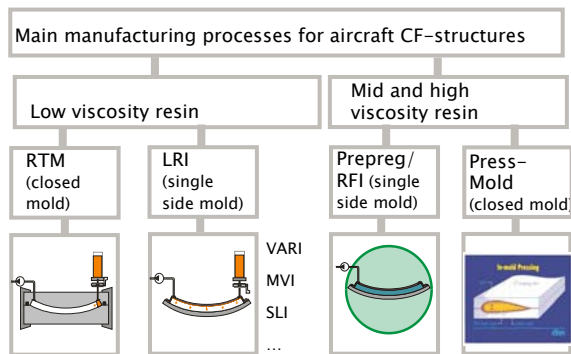
- lightweight equipment with professional performance and endurance
- highest specific properties
- design freedom

Added value of your Solution Centres

For the best possible support of our customers, we offer you a variety of options for incorporating ROHACELL® even more efficiently in your design work.

- At our **Sandwich Technology Center (STC)**, we can arrange prototype construction and small production runs, conduct all kinds of sandwich structure testing and experiments, e.g., thermoforming, liquid composite moulding and autoclaving. In addition, we provide our customers with samples and offer customer training.

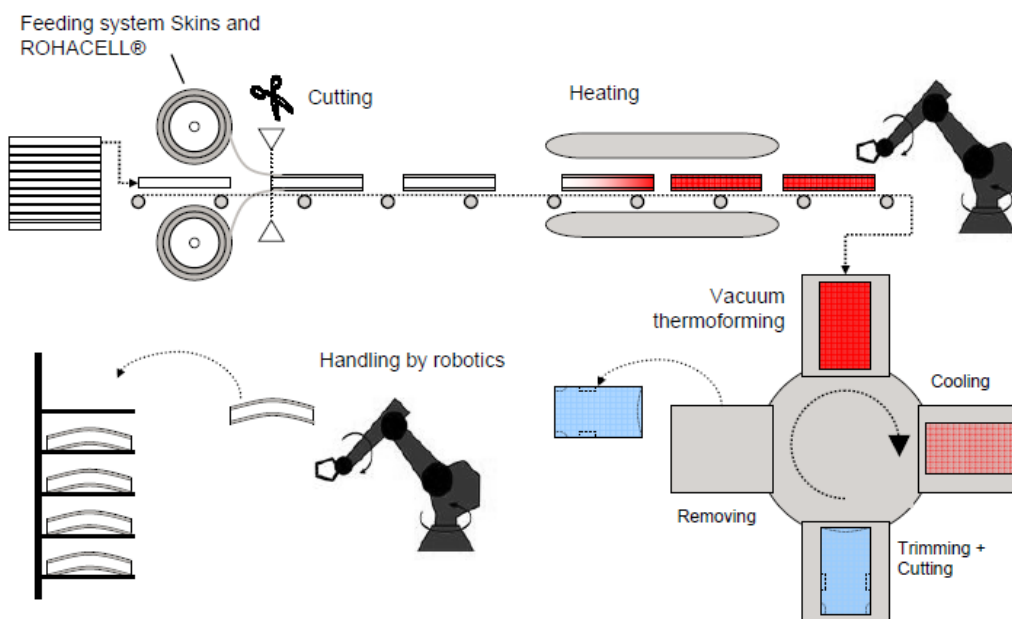
We are able to demonstrate the use of ROHACELL® in the common curing techniques.



The target is to use our knowledge to your advantage:

ROHACELL® STC provides:

- Deep understand for different grades
- Right handling
- Select right shaping method (thermoforming or NC machining)
- Use to ensure a stable and reliable curing process
- Shorten cycle time
- Cost saving concepts
- Save project time (first time right approaches)

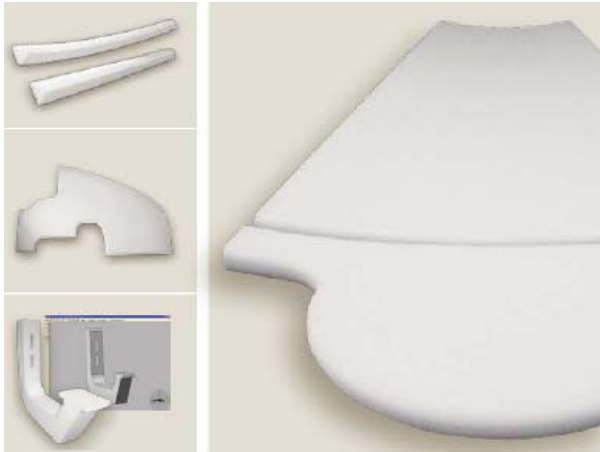


Develop automation concepts with ROHACELL®

In our ROHACELL® SHAPES Department we support your "TIM WOOD targets"

- Transportation reduction.
- Inventory reduction.
- Motion reduction in house.
- Waiting time reduction.
- Over production reduction.
- Over processing management and reduction
- Defect / rework reduction.

Buy ROHACELL® ready-to-use for cost efficient material flow



CAD file transferred into shaped ROHACELL® NC or thermoformed.



Equipment designed for ROHACELL® shaping



Highest quality standard



3D measurement device to control result



The right product to support your success

ROHACELL® grade

IG/IG-F	sporting goods, medical	
A	aircraft applications; curing up to 125°C, 0.35 MPa	Used mainly in aircraft
WF*	aircraft applications; curing up to 180°C, 0.7 MPa	
RIST*	designed for Resin Infusion, STructural application	
RIMA*	designed for Resin Infusion, Minimized Resin Absorption	
XT*	eXTended temperature, curing up to 190°C, 0.7 MPa – BMI	
HP*	highest creep resistance, e.g., 32 kg/m ³ , 180°C, vacuum	
S	good fire behaviour; railcars, ships, smaller aircrafts	
HF	antennas, radomes, medical	

* HT grade available

ROHACELL®, a worthwhile idea!

Please contact us at www.rohacell.com or
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® = registered trademark

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