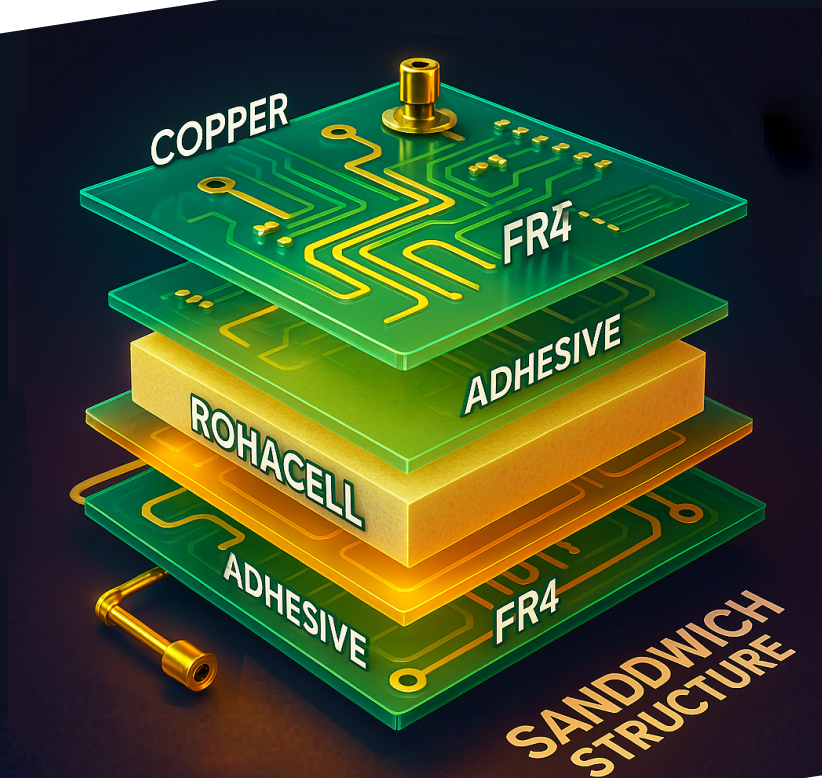




GLOBAL DISTRIBUTOR OF PERFORMANCE FOAMS

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## Supporting Electronics / PCB's



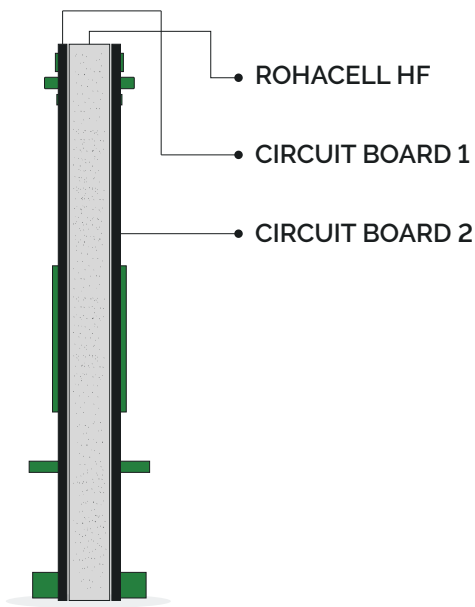
[WWW.EMKAYPLASTICS.CO.UK](http://WWW.EMKAYPLASTICS.CO.UK)

# WHAT IS ROHACELL?

Rohacell is a closed-cell, structural PMI foam with excellent mechanical properties. It is solvent resistant and has high dimensional stability under heat. Rohacell's strength values are presently not exceeded by any other foam plastic of the same gross density.

## THE BENEFITS OF USING ROHACELL

IN THE PCB INDUSTRY



Where would you find Rohacell®?

### RF/Microwave & Antenna

Ultra-low-loss, stable makes it ideal for microstrip patches, phased-array boards and radome-laminated sandwich panels in aerospace, defense and telecom.

### Medical-Imaging Backplanes

In X-ray/CT tables, mammography plates & ultrasound detector modules, its fine-cell structure minimises signal attenuation while withstanding repeated sterilisation & temperature swings.

- **Best strength-to-weight ratio on the market**  
*High stiffness and load-bearing capacity at densities down to 31 kg/m<sup>3</sup> outperforming all competing cores.*
- **Complete electrical insulation**  
*Infinite volume resistivity and dielectric strength ensure flawless high-voltage isolation & RF substrate performance.*
- **Rohacell has great dielectric properties**  
 *$\epsilon$ , 1.05–1.14 virtually constant from 0–110 GHz, with ultra-low loss tangent for unrivaled signal integrity.*
- **Rohacell has great fire resistance;**  
*Ignites only at ~600 °C (no flame) and ~350 °C under flame with self-extinguishing behavior to protect assemblies.*
- **Exceptional moisture & heat stability;**  
*In 100 % RH at 70 °C, compressive strength falls by <5 %, preserving mechanical integrity in harsh environments.*
- **Rohacell can be machined and processed in many different ways.**  
*Easily CNC-milled, sawed, bonded, thermoformed or painted compatible with stamping, sanding, forming and more..*
- **Robust chemical resistance**  
*Unaffected by acids, alkalis, solvents or hydraulic fluids retains performance after prolonged exposure.*

Scan for Datasheet  
ROHACELL® IG-F



Scan for Datasheet  
ROHACELL® HF

