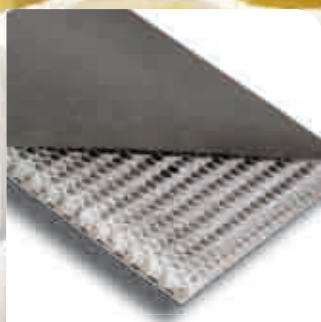




Rely on it.

Light to be strong

resistant
lightweight
100% recyclable



RENOLIT GORCELL

RENOLIT GORCELL

The highly innovative honeycomb structure has been designed to exceed the customer's expectations. The inner core, made of hexagonal cells, provides an optimum material distribution. The strong and lightweight core is combined with both technical and aesthetic composite skins made of thermoplastic polymers, **RENOLIT WOOD-STOCK** (wood fibres reinforced composite material), **RENOLIT TECNOGOR** (long natural/mineral fibres reinforced composite material), and other special layers.

LIGHTWEIGHT

HIGHLY STIFF

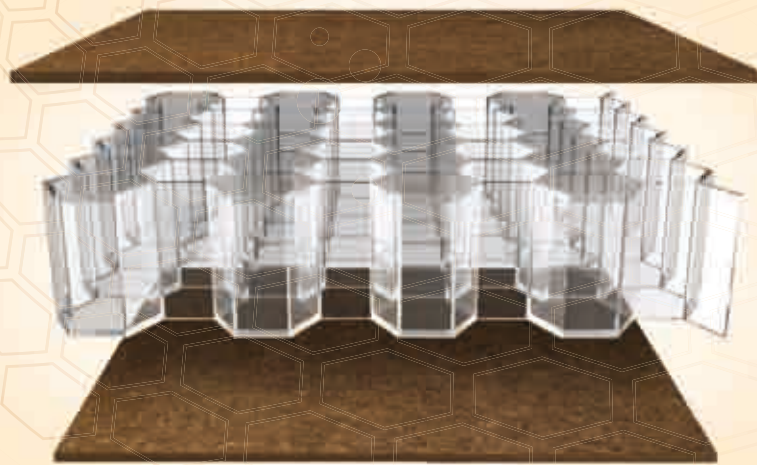
THERMOFORMABLE

COST COMPETITIVE

100% RECYCLABLE

HIGH COMPRESSION RESISTANT

HUMIDITY/WATER RESISTANT



RENOLIT GORCELL: Composite Sandwich Concept

APPLICATIONS: AUTOMOTIVE, BUILDINGS, FURNITURE...



Due to the general attention to weight reduction and to the use of recyclable raw materials, **RENOLIT GORCELL** responds to market demands and customer needs in terms of resistance, strength, lightweight, formability and complete recyclability.

We recommend **RENOLIT GORCELL** for many applications as **automotive** (interior trimming), **buildings**, **furniture**, **caravan**, **boats**, **flooring**...



COMPOSITE SANDWICH CONCEPT

CORE

Thermoplastic polymers

Thickness: from 4 to 40 mm



Produced using EconCore Technology

SKINS

Thermoplastic polymers (filled or unfilled), i.e. PP, PET, etc.

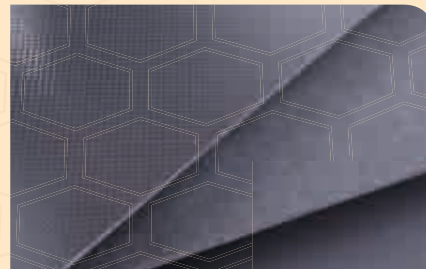
RENOLIT WOOD-STOCK

(polyolefin and wood fibres composite)

RENOLIT TECNOGOR

(polyolefin and natural/mineral fibres composite)

Special composite layers



EXTERNAL FINISHING

Aesthetic films

Technical films

Nets

Non-wovens

Special layers



RENOLIT GORCELL: LIGHT TO BE STRONG



RENOLIT GORCELL is available in three ranges:

L (LIGHT)

Core material: PP / other thermoplastic polymers

Skin material: PP / other thermoplastic polymers

Thickness: from 4 to 7 mm

MAIN PROPERTIES

A very lightweight solution characterised by a high impact resistance and good flexural properties.

M (MEDIUM)

Core material: PP / other thermoplastic polymers

Skin material: PP / RENOLIT WOOD-STOCK / other thermoplastic polymers

Thickness: from 8 to 18 mm

MAIN PROPERTIES

Lightweight and stiff product for high technical demand (both structural and aesthetic).

S (STRONG)

Core material: PP / other thermoplastic polymers

Skin material: PP / RENOLIT WOOD-STOCK / RENOLIT TECNOGOR 11 / other thermoplastic polymers

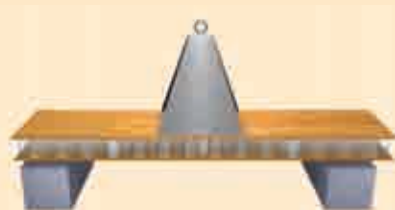
Thickness: > 20 mm

MAIN PROPERTIES

Very strong and stiff lightweight solution for structural applications.



IMPACT RESISTANCE



LOADING RESISTANCE



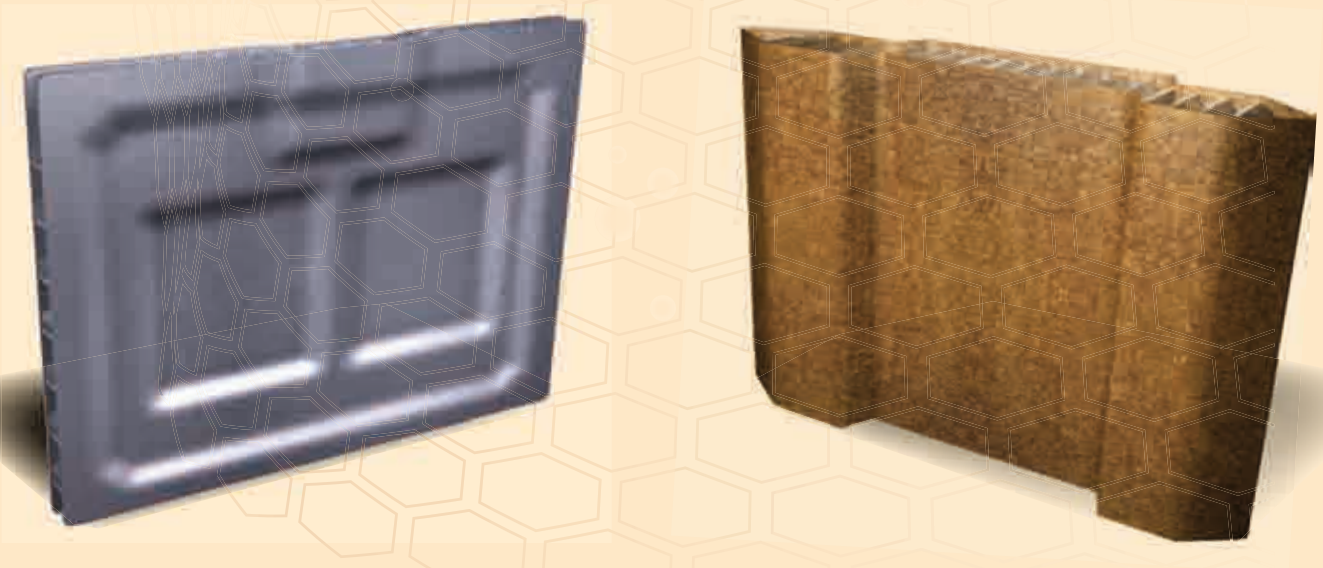
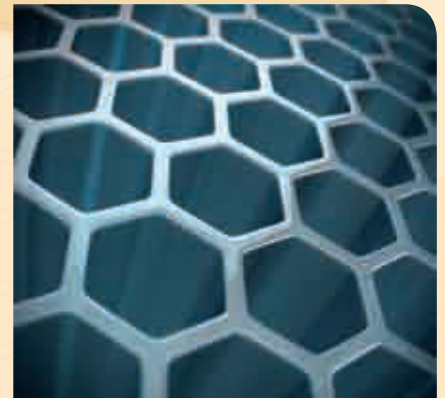
HIGH LOADING RESISTANCE

RENOLIT GORCELL: THE THERMOFORMABILITY

Molded finished parts can be achieved through an one shot thermoforming process. This characteristic is due to the rheological properties of the composite skins and to a low coefficient of heat exchange.

The isolated air in the closed cells guarantees a reduced in-flux of heat inside the honeycomb core allowing to simultaneously manage two different thermal situations: a high temperature outside which guarantees the formability during molding and a lower temperature inside which provides the core plasticity and even partial structural capabilities.

This condition ensures the maintenance of the honeycomb core structure during thermoforming but allows for the collapsed core where necessary.



HIGH THERMOFORBABLE

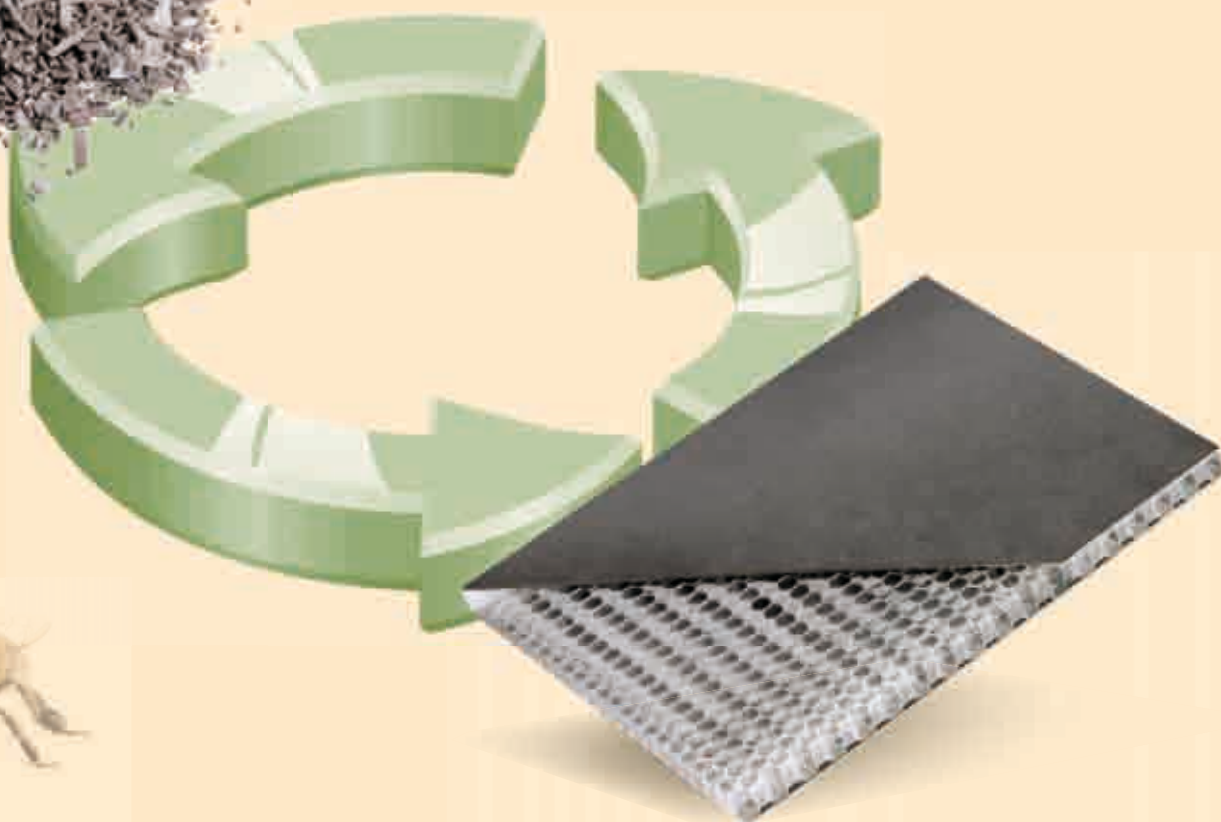
FULLY RECYCLABLE – ENVIRONMENTALLY FRIENDLY

We offer our customers the possibility of taking back wastes which result from the processing of our products. This material can be re-introduced into the panel production process.

Naturally, all materials which are re-introduced into the manufacturing process are subjected to rigorous quality controls.

The scrap collection can be implemented close to the thermoforming process line by installing a milling or grinding machine which produces the regrind material.

This material can be collected in big bags and afterwards shipped to **RENOLIT GOR**.



Business Unit
RENOLIT COMPOSITES

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vinyl^{plus}



Rely on it.