



INCA PrePregs

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AUTOMOTIVE PREPREGS

The automotive industry utilizes resin infused panels (pre-pregs), to mold 3D interior trim components such as door panels, seat backs, headliners, and package trays. Pre-pregs can incorporate glass, polymer or carbon fiber reinforcement and come in various forms including flat panels or non-woven fabrics.

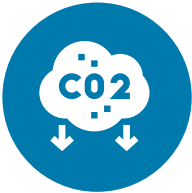
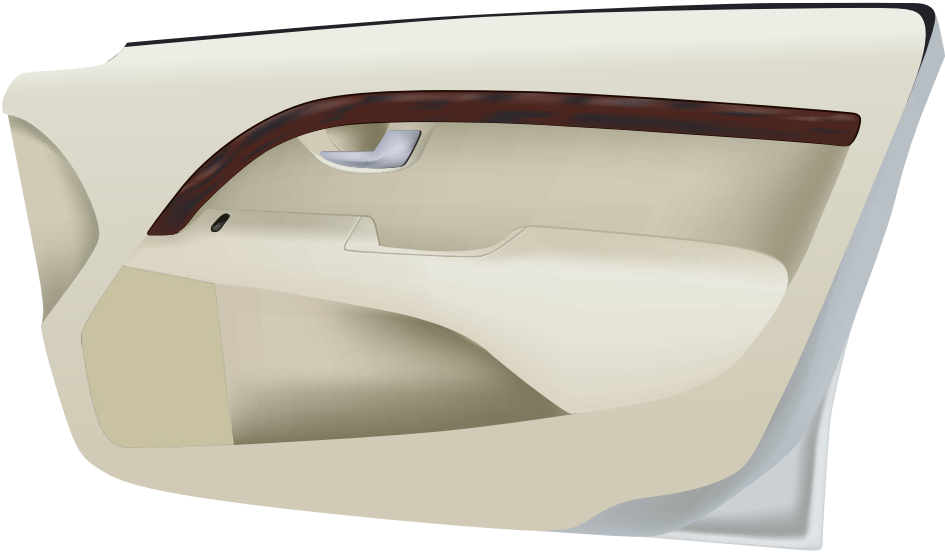
Manufacturing non-wovens involves blending natural fiber and thermal-melt polymer fiber such as polypropylene, then depositing this mat on a moving belt. The material is consolidated, carded, cross-lapped, and sent through a needle-punch system to interlace the final product.

Tier 1 customers re-heat these non-wovens, surface them with cover stock, and compression mold them into final components. While non-wovens have proven to be of great value to the automotive industry, they depend upon expensive natural fiber such as jute or kenaf imported from Southeast Asia. They also use a much higher percentage of polymer fiber, another significant expense.

INCA has developed a methodology to produce multilayered mats of hemp fiber, infuse these mats with foamed thermal melt resin, and consolidate the material on our twin-belt press to produce thermoformable pre-pregs for the automotive industry.

These pre-pregs will be stronger, lighter, and less expensive than competitive non-woven mats and panel products. They will sequester rather than generate carbon, be made of renewable resources, reduce vehicle weight, improve side impact resistance, and be formulated to be recovered and reprocessed back into future car parts once automobiles have reached the end of their useful lifecycle.

INCA PREPREGS™



27%
less carbon emissions



68%
less water consumption



30%
less waste production



We are forging the path to leadership in natural fiber composites

INCA Renewtech transforms high quality biomass into groundbreaking products for the transportation, consumer products, and building materials industries.