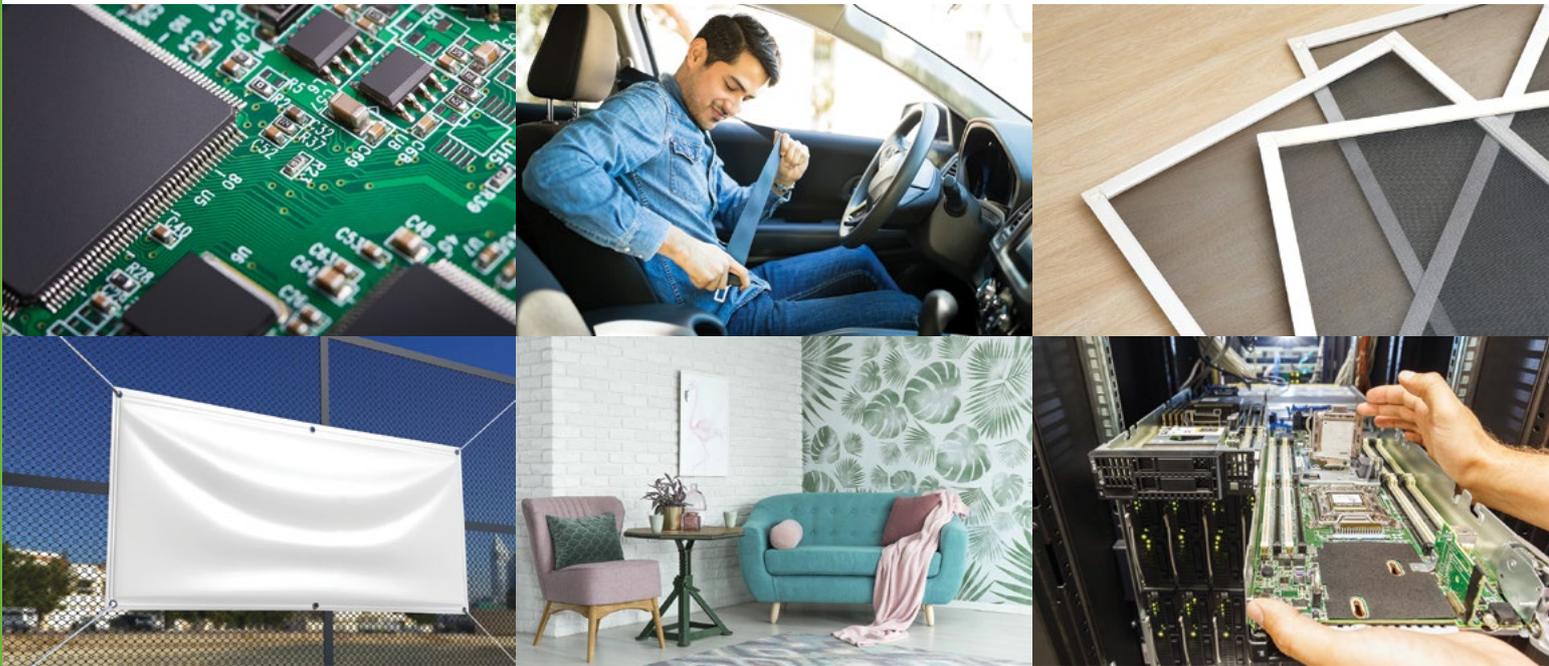


MAXIMISE FILM FORMING AND INTEGRITY FOR EVERY STRAND

Innovate Fibre Glass Manufacturing with Sustainable Polymers



Meet the growing demand for fibre glass products with **affordable, high performance film-forming** starches

Our nature-based specialty and high amylose containing starches will help to successfully meet the growing global demand for fibre glass yarns to deliver the performance and functionality customers require, whilst improving quality and productivity to enhance profits. Discover how VINLON® and VINTEX® sizing starches, eliminate synthetic alternatives and boost your **green** credentials.

CONVENIENCE & PERFORMANCE™ 

Ingredion
idea labs 
IDEAS TO SOLUTIONS



Case Study:

Challenge

Customer is using Polyvinyl Alcohol (PVA) in a warp sizing application to provide good film properties and adhesion to the fibre glass filaments. Non-biodegradability of PVA has potential implications on the environment, which enacted strengthened regulations by some European countries to limit the use. The Customer faces challenges to replace or partially substitute the use of PVA in their sizing formula.

Solution

Ingredion application specialists recommended VINTEX PRO 1910, a specialty modified starch that provides good abrasion resistance, elongation and strength properties to fibre glass yarns. It is also an excellent film former which imparts a protective coating for spun and filament yarn that can be easily de-sized.

Results

Customer can substituted 20-30% PVA and almost up to 100% depending on fabric style without new investment. There was zero impact to daily operations while achieving comparable efficiency and quality during the warp and weaving processes. VINTEX PRO 1910 also reduced heat clean process temperature by 8-12% and improved fabric air permeability by 20%.

Direct From Ingredion - The Starch Experts

Our range of nature-based sizing starches:

Product Series	Amylose Content	Yarn Type	Green Alternative	Film Formation Strength
CATO®	Regular	G, E, D	Good	Good
HYLON®	High	G, E, D	Very Good	Very Good
HI-SET®	Medium	G, D	Good	Good
GELOSE®	High	D, C	Very Good	Superior
VINLON®	High	G, E, D	Superior	Superior
VINTEX®	Regular to High	G, E, D, C	Superior	Very Good



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