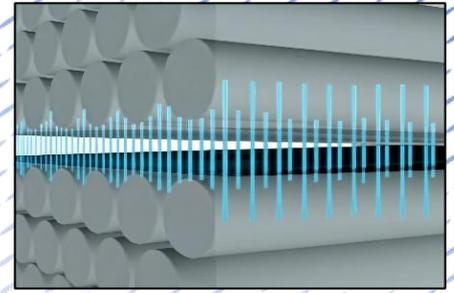


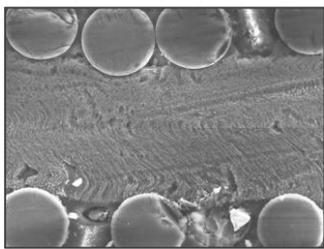


NAWAH



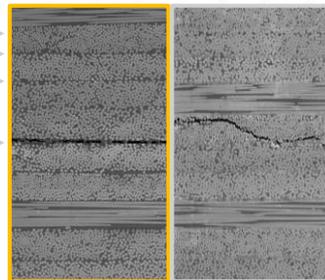
NAWAH®-Stitch: NS-Film-0101 Interleaving film for thermoset prepregs

NAWAH-Stitch film implements Vertically Aligned Carbon Nanotubes right where they are the most efficient to bring additional mechanical, thermal or electrical performances to composite pieces. By bridging the inter-ply region, carbon nanotubes prevent cracks from propagating, reducing the risk of delamination. Connecting plies together, they furthermore enhance electrical and thermal conductivities.



No NAWAH-Stitch at interfaces

Fracture propagates along interface (resin-rich region)



NAWAH-Stitch at interfaces

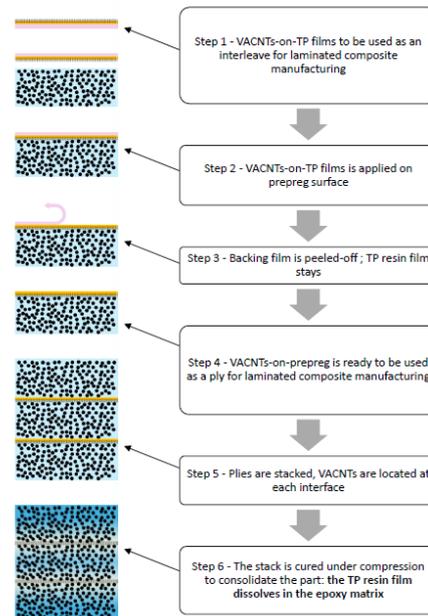
Fracture is driven into ply and stops propagation

Benefits:

- No change in curing process
- Higher Impact damage tolerance (+900%)
- Longer service life (X5 to X40 shear fatigue cycles)
- Higher electrical & thermal conductivity
- No additional volume
- Negligible additional mass (3 gsm material)

Parameter	Value	Comments
Support type	Film	For thermoset resins – before curing
Backing film	PET	
Interleave thickness	20 µm +/- 2 µm	
Interleave real weight	3 gsm +/- 1 gsm	
Width	Custom samples on demand	
Length	Custom samples on demand	

- 3 gsm – negligible additional volume
- Compatible with most fibers & resin systems
- Room temperature storage



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