Chemical Consolidation of thermoplastic tapes in placement processes

Key Facts

- Chemical consolidation during the placement process without external energy source (e.g. for start- & end fixation, local reinforcements or continuous fixation)
- Low initial investments and operating costs for the placement system (no need for expensive energy sources or ultra-sonic welding devices)
- The thermoplastic matrix is not contaminated or otherwise negatively influenced
- Allows a short cut in the process chain (no additional pre-consolidation step necessary)*
- Applicable for polyamide (PA) based UD fiber tapes and other matrix types (e.g. PEEK)*
- Available for Compositence RoboMAG – TP placement systems

Developed in Cooperation with the Institute of Lightweight Engineering and Polymer Technology (ILK) / Dresden, patent pending.

(* under development)