Title

TRADE-OFF ANALYSIS FOR DIFFERENT RTM PRODUCED LEADING EDGES CONFIGURATIONS

Abstract text

The increasing demand for sustainable and more efficient production technologies has led to identify injection processes as one of the most promising alternatives for composite components manufacturing within the aeronautical sector.
During the last years, ACITURRI is developing intensive investigation in RTM (Resin Transfer Molding) in order to completely develop the technology but also to identify the components and configurations in which more advantages are obtained when applied. Among the different studies performed, this paper is focused on the trade-off studies performed for different configurations of aerodynamic surface leading edges. Configurations reviewed here are
- multirib leading edge configuration in preimpregnated solid composite laminate cured in autoclave
- multirib leading edge configuration in solid composite produced by RTM
- sandwich leading edge configuration in RTM without ribs

Keywords

RESIN TRANSFER MOLDING, INJECTION, LEADING EDGE, SANDWICH

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