

LATEST IN ADDITIVE DEVELOPMENTS FOR LONG FIBRE REINFORCED POLYMERS

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ABSTRACT

Composite parts made from long fibre reinforced thermoplastic (LFT) material systems are known for their high impact and tensile strength. Due to the advantage of outstanding price to performance relationship of the LFT-D technology used for the composites production based on the use of Polypropylene and Glass fibres (PP/GF), it has achieved consistently increasing number of applications in the field of automobiles. But LFT based automobile applications are mainly take place in parts with large surface, which cause a significant contribution to the total amount of VOC and smell of a car. The current article explains the feasible approach of using the Addcomp commercial additives (Priex®) – provided as a complete system PP+cmPP – in combination with VOC and smell reducing additives to further enhance the mechanical, VOC and smell properties of the PP/GF composites produced by LFT-D/ILC technology.