

# ***High Performance Thermoplastic Composites***

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## **ABSTRACT**

Recent developments in material compounding, processing, and product mix have lead to new applications that involve "long fiber" thermoplastic composites. Low desnsity GMTs and long fiber thermoplastics (LFTs) are replacing traditional (both thermoplastic and thermoset) composites and metals in many automotive and industrial applications. High glass density thermoplastic "tapes" are now being developed for light weight and high productivity applications. Combining these new materials has now resulted in very light weight, functional, and even higher performance materials that offer competitive offsets to traditional thermoset composites used in aircraft and commercial transportation industries.