

Do it right, do it light!

Ultracom - BASF continuous fiber reinforced solutions for metal replacement

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Abstracts

The weight saving trend in the automotive sector is not only unbroken; it is becoming increasingly important as the year 2020 approaches – this is when the fleet CO₂ emissions of European automobile manufacturers must comply with significantly more stringent requirements. Thermoplastic materials, with both short and long fiber reinforcement, have made a major contribution to light weighting today, because with their help innumerable metal production components were replaced by equally capable plastic counterparts. In the meantime, these plastic components and materials are starting to reach their fundamental limits. The next big advance in metal substitution in vehicle construction will succeed only with a technological leap, namely, using continuous-fiber reinforcement of injection molded structures, i.e., with thermoplastic composites.

New line of semi-finished laminate and tape products

For this reason, BASF is now expanding its activities in the field of engineering plastics to include a completely new approach called UltracomTM. This is a package of three components: continuous fiber reinforced semi-finished products, adapted overmolding compounds and the complementing engineering support.

Biography



Mr. HeeWon Seo is currently working as automotive lightweight team leader in BASF Asia Pacific to support composite part development projects with customers in respective country colleagues. His background is polymer science engineering in University. He has 16 years experiences in application development for various parts, which is replaced with thermoplastic products in BASF.

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