



MOULAGES DE CAOUTCHOUCS
COMPOSITES - PLASTIQUES TECHNIQUES

Jatxou, 18th of January, 2021

PRESS RELEASE

Innovative process for full composite struts and rods

JEC2022 is the occasion for SOMOCAP and EPSILON COMPOSITE, specializing in connecting rods and structural elements in thermoplastic and thermosetting composite, to **present an overmolding innovative process of a thermoplastic composite end fitting on a hollow pultruded carbon composite profile**. This **advanced patented technology** combines two processes known for their reliability and their production rate: pultrusion and injection. The direct over-injection of high-performance thermoplastic composite ends on an ultra-rigid pultruded tube, specifically configured and treated, enables to meet extreme specifications. It also gives the designer the possibility of considering complex geometric shapes for the end fitting in order to integrate a maximum of function in a single operation. **This technology advantageously replaces the traditionally used structural bonding or riveting, providing high reliability, reproducibility and competitiveness for the manufacture of connecting rods, gripping arms, and all types of structural elements. The use of a thermoplastic also opens solutions for dissociation and recycling of end-of-life materials.** Airbus notably has chosen the technology developed by SOMOCAP and EPSILON COMPOSITE for the supply of structural struts for the A350s program Other industries already use this technology for medium and large series applications, such as robotics, industry, the sports and leisure sector and many more.



SOMOCAP

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About Somocap

Expert in advanced technology for manufacturing of Composites, Elastomers and Thermoplastics

Synergy between the different processes (Compression Molding, Injection, Infusion, RTM, Pre-preg, Machining)

New generation of materials (High Performance)

- Composites: Thermocompression, RTM, Infusion, structural sandwich panels, control over biobased material
- Thermoplastics: high-performance thermoplastics injection (PEEK, PPS, PEI...)
- Elastomers : compression molding and injection (rubber, silicone rubber, PU...)
- Toolmaking: study and manufacturing of injection molds, compression
- Integrated prototyping: 3D printer
- Assembly



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