

LUVOCOM[®] High-performance compounds for the aviation market

Weight saving High strength and stiffness High impact resistance Inherently flame retardent Made-to-measure properties Cost saving



High-strength structural part made of LUVOCOM 1301-0824 for luggage compartments in aircraft

Innovative and state of the art compounds

Aviation demands extremely strong yet lightweight materials. The megatrend towards lightweight construction with composites and carbon-fibre reinforced plastics allows tremendous savings to be made in weight and hence in fuel consumption. With our carbon-fiber reinforced thermoplastic compounds – especially extra strong LUVOCOM XCF and LUVOCOM LF – we supply a broad product range for extreme fields of application. Those compounds are based on high-temperature-resistant polymers like PEEK, PEK, PEI, PSU and PPS. Outstanding feature here is the halogen-free flame resistance without the addition of flame retardants and a low smoke density. Modifications with glass fibers and lubricants are used in less demanding structural parts – like cable fasteners – or functional parts like gear wheels for fuel pumps.

Our experts will advise you on the optimum material for your application at any time, even during the development phase. We develop individual compounds for many of our clients with a large range of available reinforcements according to specifications jointly defined in advance. LUVOCOM-high-performance compounds have been specified by major OEM and system suppliers.



Structural part made of LUVOCOM 1106/XCF/30 for aircraft seats



Fastener made of LUVOCOM 1105/CF/30/EM for overhead panels







LUVOCOM ensures reliable performance under even the most severe conditions. The materials are based on practically every available thermoplastic resin. Over the past 30+ years we have developed most of them tailor-made to customers' specific requirements. The products can be broadly divided into 8 groups as follows:

- Detectable

- Long-fibre reinforced

- High-temperature resistant
- Thermally conductive
- www.luvocom.com

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- Carbon-fibre reinforced

- Lubricant modified

Asia

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- Electrically conductive

- Functional powders



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