

# Mitsui Chemicals Europe Ltd.

## About this organisation

### Machine translation

This organisation has been machine-translated based on data provided in German.

Mitsui Chemicals Europe GmbH is the European subsidiary of Mitsui Chemicals Group, a global manufacturer and supplier of high-quality speciality chemicals, plastics and materials for the automotive, healthcare, packaging, agricultural, construction, semiconductor and electronics markets. Mitsui Chemicals Europe is responsible for business in Europe, the Middle East, Africa and Central Asia.

In addition to its focus on PP production and compounding, the Group offers a wide range of products such as impact modifiers (TAFMER™), thermoplastic elastomers (MILASTOMER™, Mitsui EPT™), adhesion promoters (ADMER™) and various functional polymers (ARLEN™, APEL™, TPX™). Thanks to the wide range of possible applications, these materials are ideally suited to fulfil the different needs of customers. In the area of composites, Mitsui Chemicals developed the new product TAFNEX™ CF-PP UD, a unidirectional (UD) fibre-reinforced tape based on carbon fibres (CF) and polypropylene (PP) with specially developed fibre bonding technology. In addition, the PP matrix was modified during development. Overall, this results in very good fibre-matrix adhesion and therefore high mechanical properties.

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Germany

[www.tafnex.eu](http://www.tafnex.eu)



**Mitsui Chemicals**  
Group

### Organisation type

Large enterprises

### Sectors

No specific sector

### Employees

500 and more

### Turnover

More than €50m

### Funding

n/a



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## About this organisation

**Main areas covered** Semi-finished product production (UD tapes CF/PP), Long fibre reinforced thermoplastics, Material development, Sizing development, PP modification

**Infrastructure** ARRK Engineering: Simulation, ARRK Shapers: Toolmaking, ARRK Ltd: Prototypes, small series

### Certifications

**Keywords** Unidirectional tapes (CF-PP), PP (polypropylene), LFT (long fibre reinforced TP), Fibre-matrix adhesion, Continuous production of semi-finished products

**Memberships** AVK, AZL, VSM/Marilight, EUROBAT

## Overview of lightweighting expertise

### Machine translation

This organisation has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Semi-finished parts, Materials	✓	✓	✓
<i>Services &amp; consulting</i>			

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## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Field of technology</b>			
<b>Design &amp; layout</b> Lightweight material construction		✓	
<b>Functional integration</b> Material functionalisation	✓	✓	
<b>Measuring and testing technology</b> Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis		✓	
<b>Modelling and simulation</b> Crash behaviour, Optimisation, Processes, Materials		✓	✓
<i>Plant construction &amp; automation</i>			
<b>Recycling technologies</b> Recycling	✓	✓	

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<b>Fibre composite technology</b> Others (Tape production, compounding)	✓	✓	✓
<b>Forming</b> Impact extrusion, Compression moulding, Thermal converting		✓	
<i>Joining</i>			
<i>Material property alteration</i>			
<b>Primary forming</b> Extrusion, Injection moulding		✓	
<i>Processing and separating</i>			
<b>Textile technology</b> Others (Sizing development)	✓	✓	

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## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Material</b>			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<b>Composites</b> Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Others (Semi-finished products (compounds, tapes))	✓	✓	✓
<b>Fibres</b> Glass fibres, Carbon fibres	✓	✓	
<i>Functional materials</i>			
<i>Metals</i>			
<b>Plastics</b> Thermoset plastics, Elastomers, Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

## Contacts

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# Mitsui Chemicals Europe *Ltd.*

## Contacts

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