

ThermoPlastic Composites Research Centre (TPRC)

Institute

About this organisation

Machine translation

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

By bringing together all actors in the value chain, we effectively identify, analyse and overcome the technological barriers that hinder large scale application of thermoplastic composites. The involvement of the value chain as a whole prevents point solutions and accelerates innovation. TPRC is renowned as a world-leading authority and is seen as an outstanding knowledge partner with unique knowhow on the processing of thermoplastic composites.

Thermoplastic Composites Characterisation methods of materials in melt temperature Simulation tools for production processes Tape / fibre placement and in-situ consolidation Virtual, predictive tools for overmoulding A network of industrial and academic experts with individually up to 30 years of experience in thermoplastic composite materials and processes

Palatijn 15
7521 Enschede
Netherlands
Netherlands
www.thermoplastic-composites.com



Organisation type
Non-university research institution

Sectors
No specific sector

Employees
10 up to 49

Turnover
€2m - €10m

Funding
n/a

Main areas covered
Process simulation tools

Infrastructure
All required infrastructure

Certifications

Keywords
Virtual Manufacturing

Memberships

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Software & databases, Others (Understanding, know-how, the science behind the production process)	✓	✓	
Services & consulting Prototyping, Validation, Simulation, Technology transfer	✓	✓	
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Loads & stress, Multiphysics simulation, Optimisation, Processes	✓	✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming			
Compression moulding	✓		
Joining			
Welding	✓	✓	
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites			
Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)	✓	✓	
<i>Fibres</i>			
<i>Functional materials</i>			
<i>Metals</i>			
Plastics			
Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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