ThermoPlastic Composites Research Centre (TPRC)

Institute

About this organisation

Machine translation

This profile 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: null	✓	✓	
Services & consulting Prototyping, Validation, Simulation, Technology transfer	✓	✓	
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology			
Modelling and simulation Loads & stress, Multiphysics simulation, Optimisation, Processes	✓	✓	
Plant construction & factory automation			
Recycling technologies			

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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			
Biogenic materials			
Cellular materials (foam materials)			
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)	✓	✓	
Fibres			
Functional materials			
Metals			
Plastics Thermoplastics	✓	✓	
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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