Kunststoff-Institut für die mittelständische Wirtschaft NRW GmbH

About this organisation

Machine translation

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

Foundation of the institute in 1988 102 specialists in material, process, mould, surface, process and testing technology at two locations 12 injection moulding machines (8 with insertion and removal automation) Competence centre for thermoset processing Comprehensive measurement technology for injection moulding process optimisation Accredited test laboratory since 2000 108 systems for material, component and surface testing

The Kunststoff-Institut is characterised by many years of expertise in the field of materials technology. In addition to specialist consulting, one focus is on industry- and company-specific material development for industrial applications using compounding technology. The interdisciplinary co-operation between the Institute's specialist departments offers the advantage of being able to comprehensively map product developments. Key words are: Thermal management, thermal conductivity, flame retardancy, fillers and reinforcing materials, carbon fibres, functionalisation of material systems, antibacterial surfaces, stress corrosion cracking, tribology, acoustics, recycled materials, bioplastics, natural fibres, renewable raw materials, shape memory polymers. In particular, the topic of "recycling carbon fibre waste" and the processing of natural fibres are currently the focus of our activities.

Karolinenstraße 8
58507 Lüdenscheid
North Rhine-Westphalia
Germany
www.kunststoff-institut.de

Organisation type
Small or medium-sized enterprise

Sectors
No specific sector

Employees
50 up to 249

Turnover
€2m - €10m

Funding
n/a



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About this organisation

Main areas covered	Material development/ validation, Compounding, Injection moulding hybrid materials, Material testing/analysis, Surface technology
Infrastructure	Materials development technical centre, Injection moulding technical centre, Surface application technology, Laboratories
Certifications	DIN EN ISO/IEC 17025:2005, ISO 9001:2008, Gold Label Cluster Management
Keywords	Material development, Carbon fibre recycling, Material validation, Injection moulding, services
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Materials	✓	✓	
Services & consulting Training, Consulting, Testing and trials, Validation, Technology transfer	✓	✓	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	
Functional integration Material functionalisation	✓	✓	
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	
Modelling and simulation Materials, Others: null	✓	✓	
Plant construction & factory automation			
Recycling technologies Recycling, Upcycling	✓	✓	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Others: null	✓	✓	
Coating (surface engineering) Galvanising, Painting, Plasma process, Sputtering	✓	✓	✓
Fibre composite technology			
Forming			
Joining Adhesive bonding	✓	✓	
Material property alteration			
Primary forming Extrusion, Injection moulding	✓	✓	✓
Processing and separating			
Textile technology			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics, Biocomposites	✓	✓	✓
Cellular materials (foam materials) Closed-pore, Open-pore, Syntactic foams	✓	✓	
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Metal-ceramic composite, Metal matrix composite, Nanocomposites, Natural fibre reinforced plastics (NFRP)	✓	✓	
Fibres Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres, Natural fibres	✓	✓	✓
Functional materials Shape memory materials, Others: null	✓	✓	✓
Metals			
Plastics Thermoset plastics, Thermoplastics	✓	✓	✓
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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