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Fraunhofer Institute for Large Structures in Production Engineering IGP

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Adhesive Bonding Technologies

Overview of our services

Photos: Fraunhofer IGP



Adhesive Bonding Technologies

This area of the Fraunhofer IGP deals with current joining technology problems of lightweight and mixed construction methods as well as with the development and adaptation of manufacturing processes for fibre composite components. Further focal points are the investigation of ageing influences on materials, bonded joints and coatings through laboratory ageing in an artificial climate.

In cooperation with the accredited test laboratory of the Fraunhofer IGP, materials, compounds and coating systems

are tested and qualified under standardised conditions. In addition, new test methods are developed and used for special applications.

In the field of adhesive bonding technology, the IGP's range of services extends from the adhesive design of components and assemblies, to the design and dimensioning of bonded joints, to the development and qualification of the entire bonding process as well as the joint.

Our services at a glance

- Design and qualification of bonding processes and bonded joints through adhesive selection
- Surface pre-treatment and development of bonding processes
- Development of automation solutions for adhesive bonding applications
- Determination of characteristic values for material and joints by static and cyclic tests as well as polymer analysis
- Analytical and numerical calculation of bonded joints
- Adhesive bonding process execution and component tests under simulated real conditions



Adhesion is
non-negotiable!«
Linda Fröck (EAE)