

Equipment of Fraunhofer IFAM in the Field of Adhesive Selection

Adhesive Characterization

- Thermal analysis: DSC, DMA, TGA, DEA, TMA
- Rheological characterization of processing properties (flow behavior): extensional rheometer, capillary rheometer, rotational rheometer
- Characterization of curing properties (pot life, shrinkage, kinetics etc.)
- Mechanical properties (Young's modulus, Poisson's ratio, coefficient of thermal expansion, compression modulus, etc.)

Adhesion strength determination

- Tensile shear tests according to DIN EN 1465
- Roller peel test according to DIN EN 1464
- Face peel test according to DIN
- compression shear test
- Individual project-specific adhesion tests

Climatic exposures

- Humid / warm climatic exposures according to numerous standards of the different industries
- Climate change test
- Cataplasma test according to DIN EN ISO 9142
- Salt spray test