

**Title**

TESTING OF FIBRE REINFORCED COMPOSITES

**Abstract text**

Since many years Zwick works successfully with known companies and Universities in this scope of applications. A lot of testing machines for fibre reinforced composites have been developed and supplied since. Thus, a comprehensive range of products has been developed and standardized. A large part of these activities concerns quasi static materials testing in the field of chips, which is performed by using standardized testing methods.

We will present a selection of current test methods and the corresponding test systems that Zwick can offer. An overview of international standardization in the field on fibre reinforced composites will be given. A main focus is the presentation of different methods of compression testing. Other test methods such as tensile, IPS, flexure, ILS, different shear methods and the determination of energy release rate in mode I, mode II and mixed mode I/II will shortly be presented.

**Keywords**

IPS, ILS, MODE I, MODE II, MIXED MODE

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