

DIN EN ISO 20337:2020-01 (E)

Fibre-reinforced plastic compo sites - Shear test method using a shear frame for the determination of the in-pl ane shear stress/shear strain response and shear modulus (ISO 20337:2018)

Contents	Page
European foreword	3
Foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Principle	7
5 Test apparatus	8
5.1 Tensile test machine.....	8
5.1.1 General.....	8
5.1.2 Test speeds.....	8
5.1.3 Force indicator.....	8
5.2 Shear frame.....	8
5.3 Strain measurement.....	10
5.4 Micrometer.....	11
6 Test specimens	11
6.1 Shape and dimensions.....	11
6.2 Preparation of test specimens.....	12
6.3 Inspection of the test specimens.....	13
6.4 Number of test specimens.....	13
6.5 Conditioning of test specimens.....	13
7 Procedure	13
7.1 Test atmosphere.....	13
7.2 Determination of the test specimen thickness.....	13
7.3 Test speed.....	13
7.4 Data collection.....	13
7.5 Test termination.....	13
7.6 Failure mode.....	14
8 Calculation and expression of results	15
9 Test report	16
Bibliography	17