

# 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)

---

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>3</b>
<b>Foreword</b> .....	<b>4</b>
<b>Introduction</b> .....	<b>5</b>
<b>1 Scope</b> .....	<b>6</b>
<b>2 Normative references</b> .....	<b>6</b>
<b>3 Terms and definitions</b> .....	<b>6</b>
<b>4 Principle</b> .....	<b>7</b>
<b>5 Test apparatus</b> .....	<b>8</b>
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
<b>6 Test specimens</b> .....	<b>11</b>
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
<b>7 Procedure</b> .....	<b>13</b>
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
<b>8 Calculation and expression of results</b> .....	<b>15</b>
<b>9 Test report</b> .....	<b>16</b>
<b>Bibliography</b> .....	<b>17</b>