

**Technical Definition**Bending test  
Carbon Fiber Composite***Instructions to participant laboratories***

Please read carefully these instructions **BEFORE** starting the tests.

1. Five specimens (100 x 10 x 2 mm) are supplied to each participant – 5 results must be provided.
2. The specimens have to be dried during 48 hours (0/+10) at 70°C (+/- 3) and tested within the next 8 hours after the drying.
3. All tests have to be performed at room temperature in accordance with the requirements of EN 2562(1997).
4. The face of the specimen with the identification shall be tested under the roll.
5. Each participant is required to determine the following parameters:
  - Bending strength and failure mode (calculation must be done by using both the actual measured thickness and the measured width).
  - Bending modulus (calculation in accordance with the methodology described by the EN 2562 standard).
6. The following information need to be reported:
  - Specimen dimensions (mm)
  - Ambient temperature [°C] and ambient humidity [% rel. Hum.] during test
  - Recording of load versus deflection
  - Test results, obtained on each tested sample, of the parameters as detailed in section 4
7. Results are to be reported as follows:
  - Bending stress at failure (XXX MPa)
  - Failure load (XXX N)
  - Bending modulus (XX,X GPa)
  - Failure mode
8. Testing shall start as soon as test specimens are received. All participant laboratories must supply results by September 2<sup>nd</sup>, 2016.
9. Instructions for submission of results are detailed on the website:  
  

<https://ptpscheme.com/>
10. The sponsors could ask you proofs of your records and analyses, so be sure to conserve data, curves and specimens.