

Technical DefinitionTensile Test
Carbon Fiber Composite

Instructions to participant laboratories

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

1. Five specimens 250 x 15 x 1 mm are supplied to each participant – 4 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 are to be performed at room temperature in accordance with the method of EN 2561(1995).
4. Each participant is required to determine the following parameters:
 - Tensile strength
 - Secant modulus (to be calculated in accordance with the methodology described by the EN 2561 standard)
 - Elongation to failure (A%)
5. The following information need to be reported:
 - Specimen dimensions (mm) both width and thickness measured in at least 3 positions as stated in the reference standard.
 - Ambient temperature (°C) and, if available, ambient humidity
 - Record of stress versus strain
 - Method of measurement of deformations (extensometer or gauge)
 - Test results, obtained on each tested sample, of the parameters as detailed in section 4
6. Results are to be reported to the following precision:
 - Tensile strength (XXX MPa)
 - Failure Load (XX,X KN)
 - Secant modulus (XX,X GPa)
 - Elongation to failure (X,XX %)
7. Testing shall start as soon as test specimens are received. All participant laboratories must supply results by November 15th 2014.
8. Instructions for submission of results are detailed on the website:

<https://ptpscheme.com/>
9. To ensure confidential treatment of results in the final report, each participant lab will be provided with a unique identity number at the moment of his registration to the program.
10. The sponsors could ask you proofs of your records and analyses, so be sure to conserve data, curves and specimens.