

Technical Definition

Interlaminar Shear Strength test (Elevated Temperature)
Carbon Fiber Composite

Instructions to participant laboratories

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

1. Five specimens 20 x 10 x 2 mm are supplied to each participant – 5 results must be provided.
In case of exclusion of a test specimen result by yourself, you shall provide a short root cause analysis.
2. The specimens have to be dried during 48h (0/+10) at 70°C (+/- 3) and tested within the next 8 hours after the drying.
3. All tests are to be performed at 120°C (\pm 3°C) in accordance with the requirements of EN 2563 (1997).
A fixed span of 10 mm shall be used for all tests.
Duration of specimen temperature stabilisation prior the test : 5 minutes once the test nominal temperature is reached.
Tests shall be performed by the same operator on the same test machine.
4. Each participant is required to determine the following parameters:
 - Apparent interlaminar shear strength (calculation must be done by using the measured thickness and the measured width).
5. The following information need to be reported:
 - Specimen dimensions (mm)
 - Test temperature (°C), method of measurement (including thermocouple location)
 - Test results, obtained on each tested sample, of the parameters as detailed in section 4.
 - All these information shall be provided even if failure mode is not valid.
6. Results are to be reported as follows:
 - Apparent interlaminar shear strength (XX,X MPa)
 - Failure Load (X,XX kN)
 - Failure modeA standard complete test report shall be stored by the participant. In case of suspicious results, it will be asked for investigation by the sponsors.
7. All participant laboratories must supply results by September 15th 2015.
8. Instructions for submission of results are detailed on the website:

<https://ptpscheme.com/>
9. To ensure the confidential treatment of your results in the final report, you will be allocated a unique identity number when you register for the program.
10. The sponsors could ask you proofs of your records and analyses, so be sure to conserve data, curves and specimens.