



Technical Definition

G1c Composite
Carbon Fiber Composite

Instructions for participating laboratories

Please read carefully these instructions **BEFORE** starting any testing activities.

1. Five specimens (250 x 25 x 3,0 mm) are supplied to each participant. 5 results have to be submitted. 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 48 hours (0/+10) at 70°C (+/- 3) and tested within the next 8 hours after the drying.
3. The conformity of the specimens to the requirements of AITM 1-0053, issue 06 shall be verified before testing.
4. Tests shall be performed according to AITM 1-0053, issue 06

The tests shall be performed respecting the following conditions:

- One operator only
- One testing machine only
- Tests performed in sequence

5. Prerequisite for starting the tests are:
 - an Airbus qualification for this test
 - For labs which are not qualified yet, the rules of Technical Qualification of Mechanical Test Methods apply. The PTP kit may be used for the required comparison tests.
6. Each participant is required to report the following parameters :

Characteristic	Unit	Significant digits	Mandatory / Not mandatory
Specimen dimensions	mm	XX,XX	Mandatory
G1c - Fracture toughness energy	J/m ²	XXX,X	Mandatory
Ai - Pre-crack length	mm	XX,X	Mandatory
A - Crack length	mm	XX,X	Mandatory
Main failure mode	N/A	N/A	Mandatory
Percentage of failure mode 2	%	XX	Mandatory
Validity of the tests	N/A	N/A	Mandatory

7. Testing shall start as soon as test specimens are received. All participant laboratories must supply results by August 31st, 2017.
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.



***Kit G1c Composite PTP
2017***

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10. The tested specimens do not need to be sent back to PTP.

Note:

The following data shall be provided directly to AIRBUS on demand:

- A standard complete test report
- Pictures of failure mode (samples shall be opened completely)
- Result table including all dimensions and results as required in AITM 1-0053
- Load-displacement curves
- Pictures of current test set-up, including tabs and clamping