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Carbon Hinge Cycle Testing

Sample

25mm x 3 mm x 50mm standard Carbon Kevlar Hinge - DOM 05/2017

Test

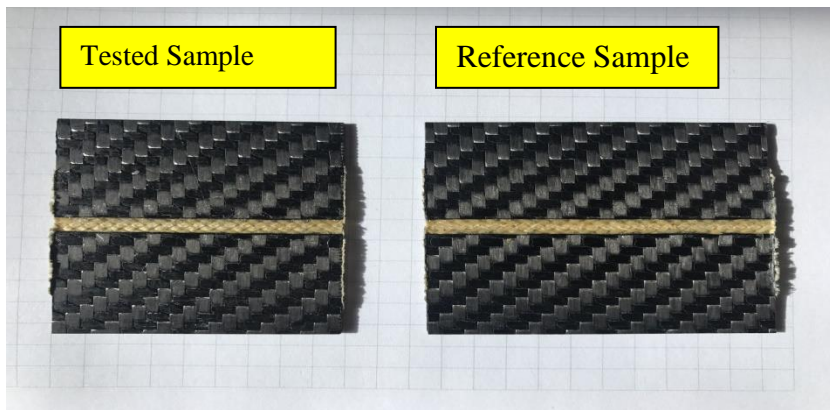
Degrees of movement = 80 degrees
Speed of cycle = 340 cycles per minute
Average Temperature = 20 degrees C

Cycle time = 2,542 minutes continuous

Total Test Cycles = 864,280

Observations

- No fraying of fibre
- No change in color
- No break down in interlaminar bond between Kevlar and carbon components.
- No change in static load strength.
- Minor change in hinge flex, the tested hinge was slightly more flexible than an untested comparison piece.
- Hinge stability was slightly affected by the increased hinge flex.



Test Date : June 2017