VZLU - Czech Aerospace Research Centre

Aviation Division - Materials and Technologies Department

Materials Testing Laboratory

PULL-OUT TEST

Tensile Machine: Inova ZUZ 50

Material: Prepreg Nanopith ER130\_90 / CC200T300 3K Plain

Foil adhesive Scotch Weld AF163-2K WT 0.06

Honeycomb Plascore PAMG-XR1-3.1-3/16-10-P-5056

Adhesive for inserts Araldite AV138M/HV998MP

Set: V43b

Test method: Pull-out (ECSS-E-HB-32-22A)

Crosshead speed: 0.5 mm/min

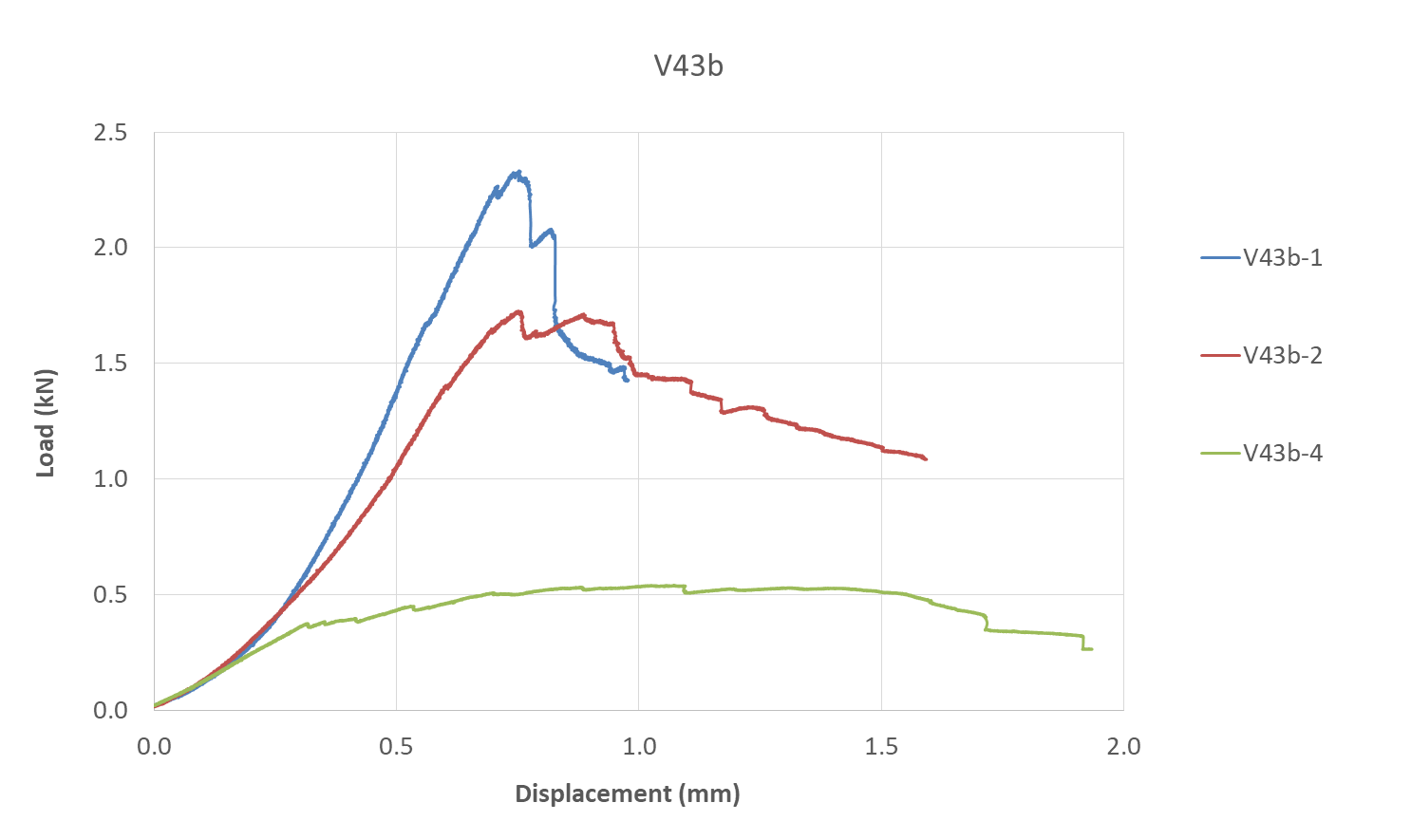
Test date: 20. 5. 2020

Operator name: I. Mlch

Temperature: 26.1 °C

Humidity: 36.2 %R.H.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Sample | Max. Load | Note |
| (kN) |
| 1 | V43b-1 | 2.333 |  |
| 2 | V43b-2 | 1.727 |  |
| 3 | V43b-4 | 0.541 |  |
| Mean |  | 1.534 |  |
| S.D. |  | 0.912 |  |
| C.V. (%) |  | 59.46 |  |
| Min. |  | 0.541 |  |
| Max. |  | 2.333 |  |



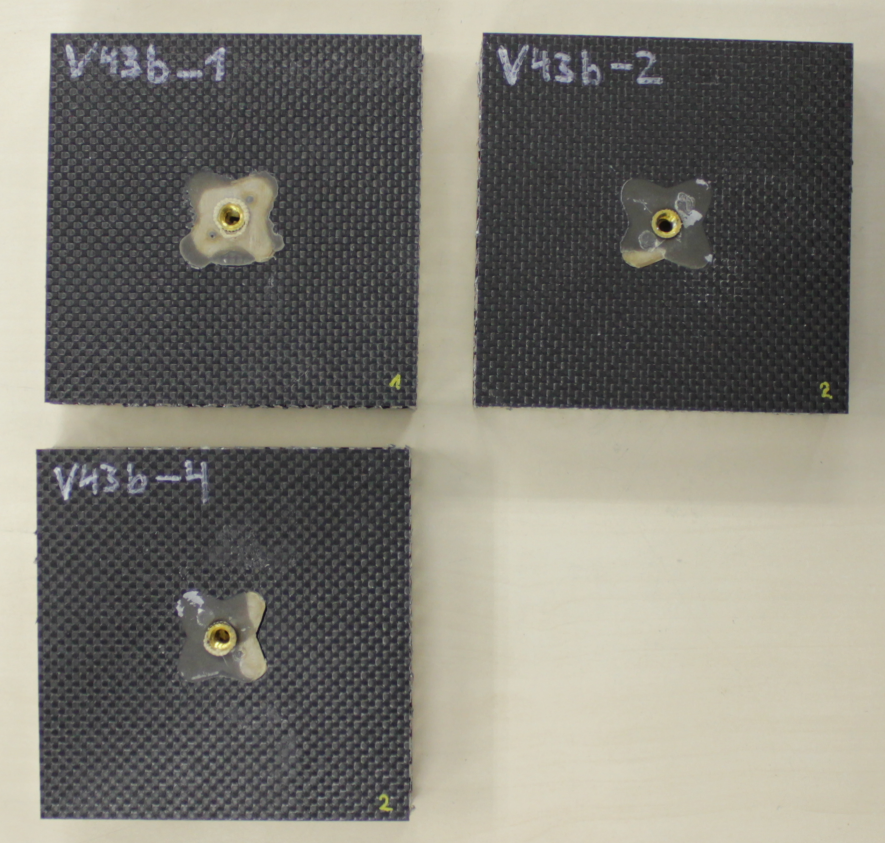


Fig. 1 – Specimens before testing

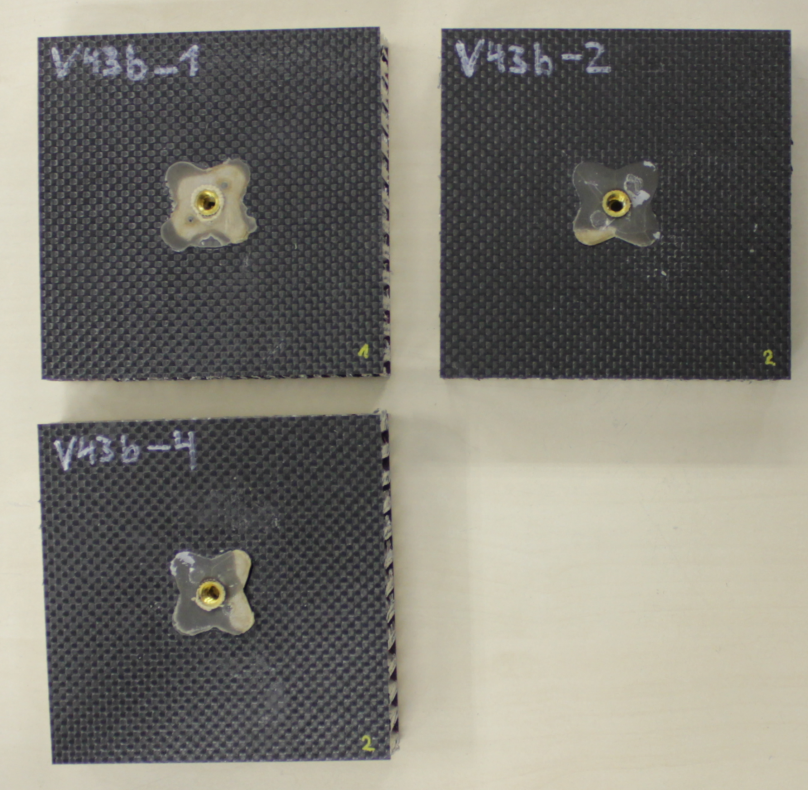


Fig. 2 – Specimens after testing



Fig. 3 – Test setup overview



Fig. 4 – Specimen clamping detail

End of record