Experiment 1 data.xlsx & Experiment 2 data.xlsx

Form 1: Crush test

Table 2: Tensile test

Row 1: Different vacuum degrees in kPa

Column A,E,I,M,Q,U,Y,AC,AG,AK,AO: pushing/pulling depth of the actuator in mm

Others: Data divided by 10 for contact force, unit N

Experiment 3 data.xlsx

Table 1: Rigid binding experiment

Table 2: Rigid bondage mean value data

Table 3: Fabric binding experiment

Table 4: Average value of fabric binding data

Table 5: Variable stiffness binding experiment

Table 6: Mean value of variable stiffness binding

Table 7: Summary

Row 1: Sensor serial number (three experiments)

Column A: Data serial number

Column B: Data acquisition time in s

Others: data divided by 0.0625 for contact pressure in N