

# ADVANCED FUNCTIONAL MATERIALS

## Supporting Information

for *Adv. Funct. Mater.*, DOI: 10.1002/adfm.201500241

**A Novel Bioinspired Switchable Adhesive with Three Distinct Adhesive States**

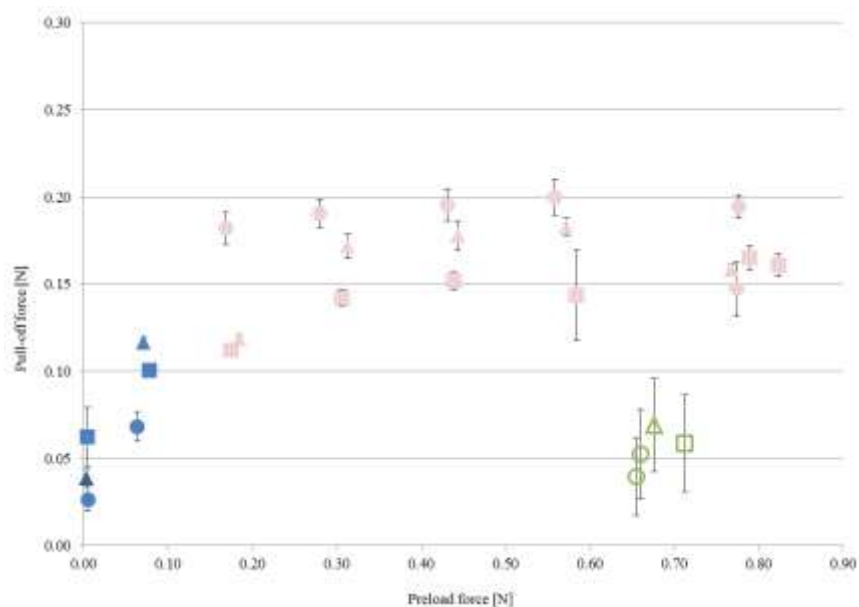
*Paula Yagüe Isla and Elmar Kroner\**

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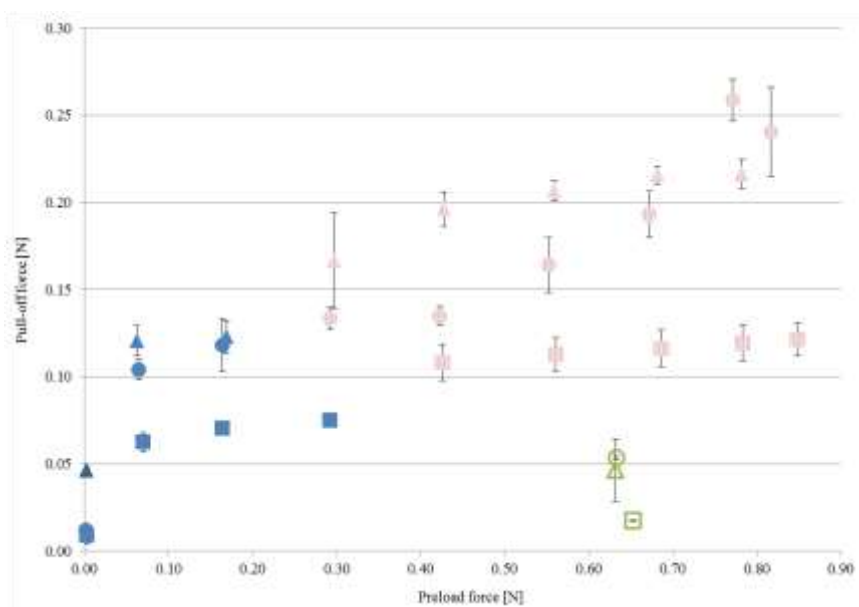
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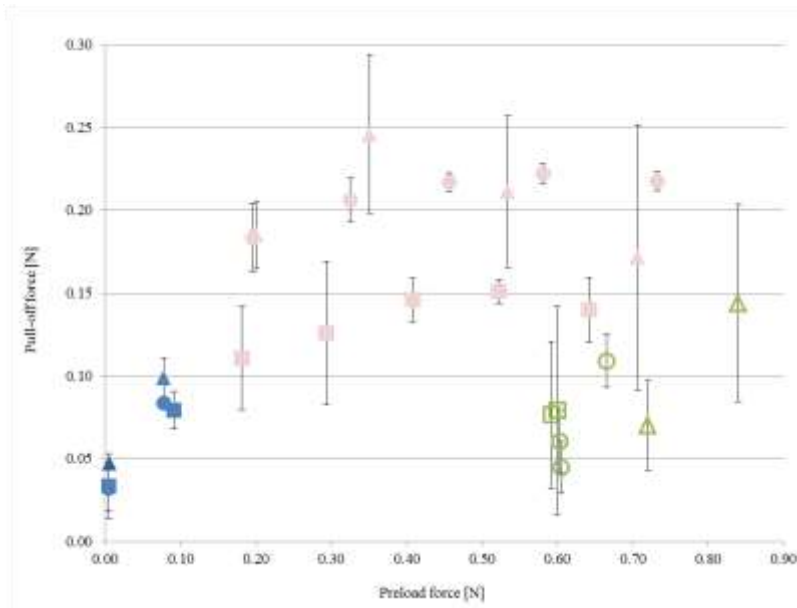
*Paula Yagüe Isla and Elmar Kroner*



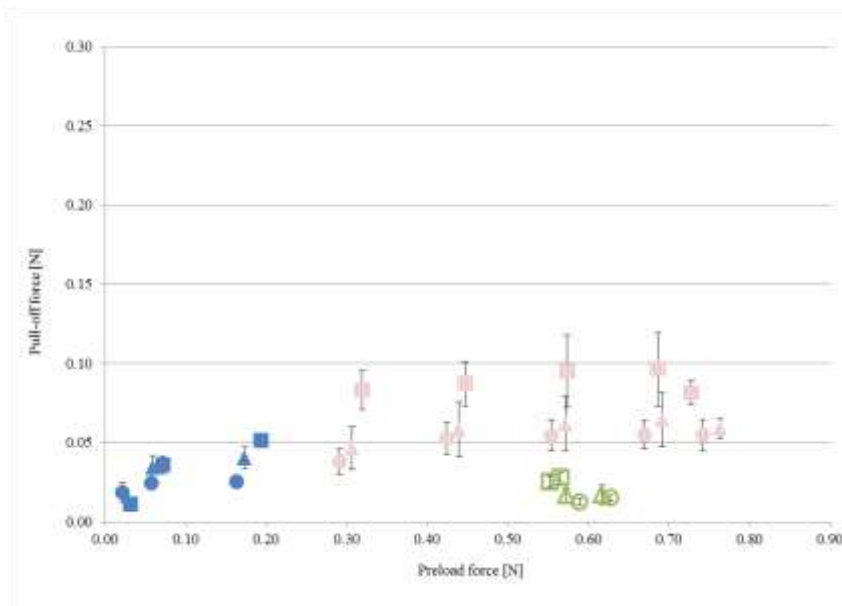
AR4, 20 μm/s



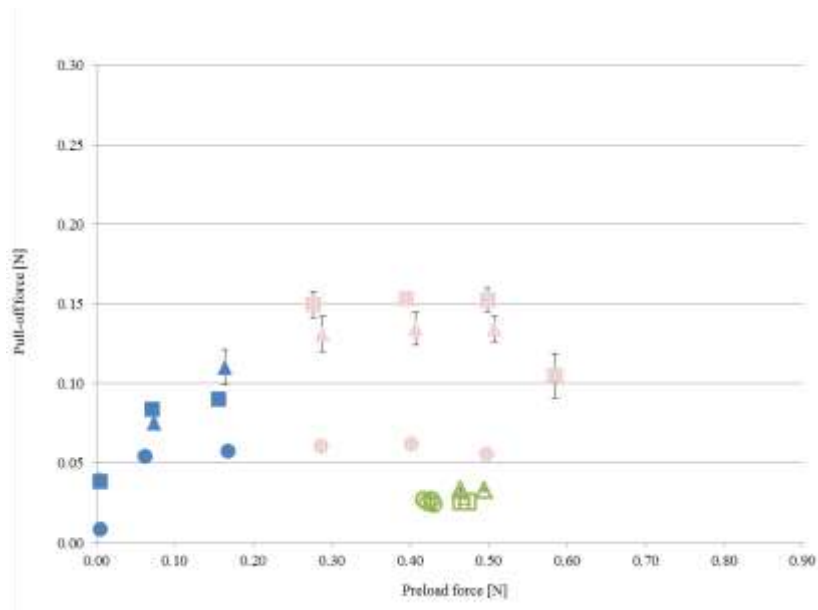
AR4, 60 μm/s



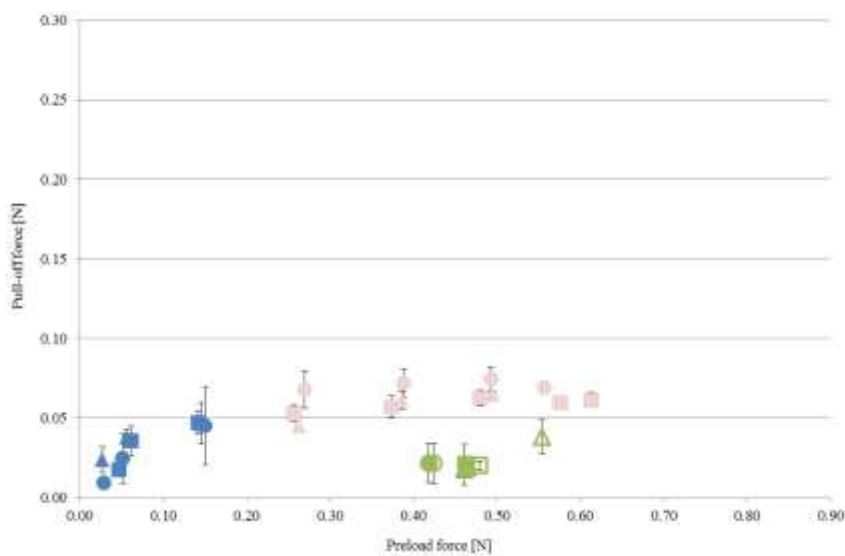
AR4.5, 20  $\mu\text{m/s}$



AR4.5, 60  $\mu\text{m/s}$



AR5, 20 μm/s



AR5, 60 μm/s

**Figure S1.** Comparison of graphics Pull-off force vs. Preload force for the three aspect ratios and the two different velocities tested. (a) aspect ratio 4 tested at 20 μm/s, (b) aspect ratio 4 tested at 60 μm/s, (c) aspect ratio 4.5 tested at 20 μm/s, (d) aspect ratio 4.5 tested at 60 μm/s, (e) aspect ratio 5 tested at 20 μm/s, (f) aspect ratio 5 tested at 60 μm/s.

**Video S2.** The video shows the original in situ sequence for the force distance measurement provided in Figure 4c.