Supplementary information for

Preparation of a "sliding graft copolymer," an organic solvent-soluble polyrotaxane containing mobile side chains, and its application for a crosslinked elastomeric supramolecular film

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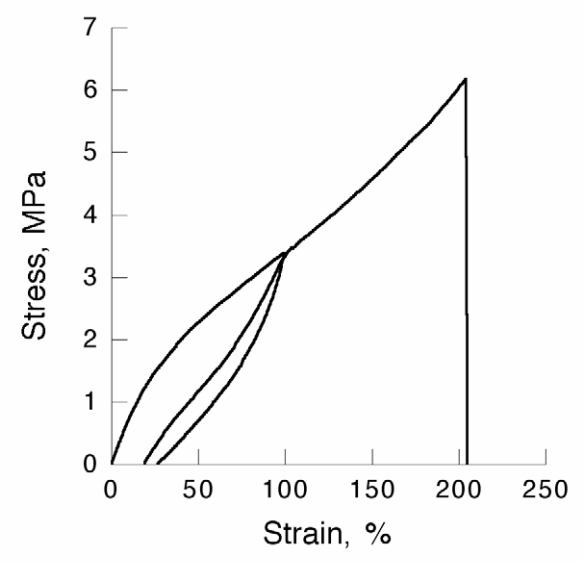

Figure. Typical stress-strain curve for the crosslinked SGC film showing hysteresis. The sample was first drawn up to 100% of strain followed by recovery to zero strain and subsequent second drawing up to fracture.The sample was first drawn up to 100% of strain followed by recovery to zero strain and subsequent second drawing up to fracture.

Table. Properties of the starting hydroxypropylated polyrotaxane.

M_w	124000 [a]
M_w/M_n	1.57 [a]
Inclusion ratio of the starting (unmodified) polyrotaxane	25% [b]
Molecular substitution of CD	8.82 [c]

[a] By gel permeation chromatography.

[b] By ^{1}H NMR.

[c] Calculated from supplier's information regarding the "degree of substitution" (49%), which was calculated as the ratio of the molar number of bound propylene oxide to the molar number of

hydroxyl groups in polyrotaxane, as obtained from the ^{1}H NMR results. The value is expressed as the average molar number of propylene oxide bound to one α-CD.