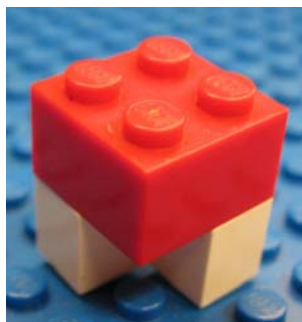


Polydimethylsiloxane

Monomers for the condensation polymerization:

Color key:

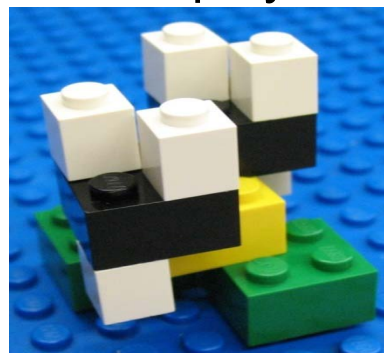
yellow = silicon
black = carbon
white = hydrogen
red = oxygen
green = chlorine



water

This model requires:

1 red 2x2 brick
2 white 1x1 bricks

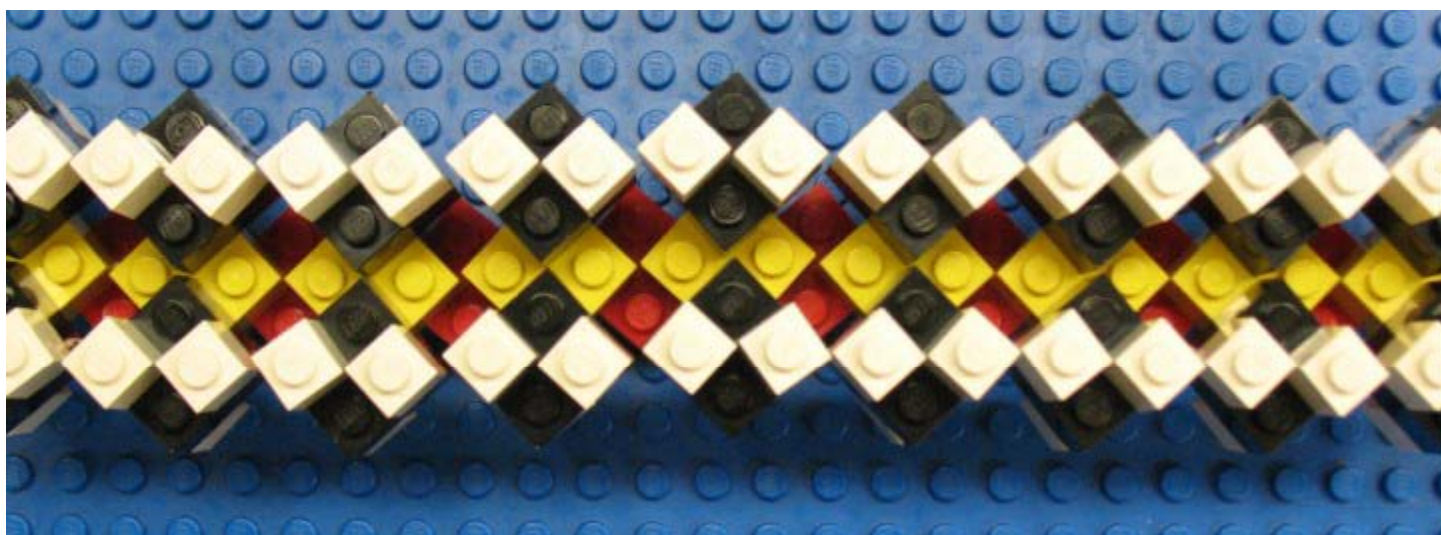


dichlorodimethylsilane

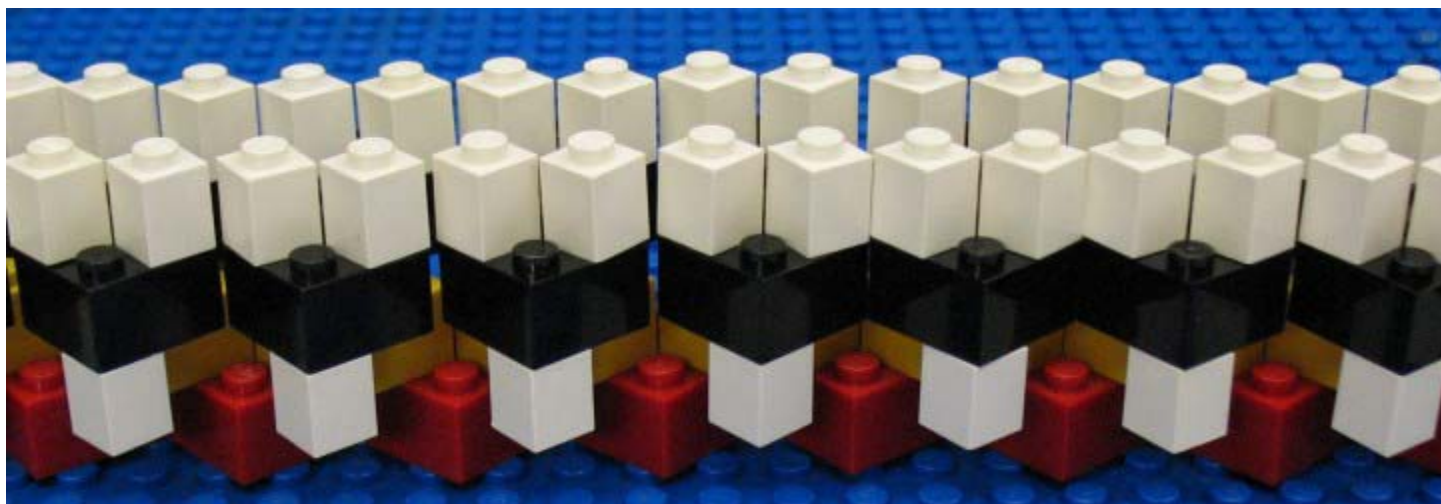
This model requires:

2 green 2x2 bricks
1 yellow 2x2 brick
2 black 2x2 bricks
6 white 1x1 bricks

Top view



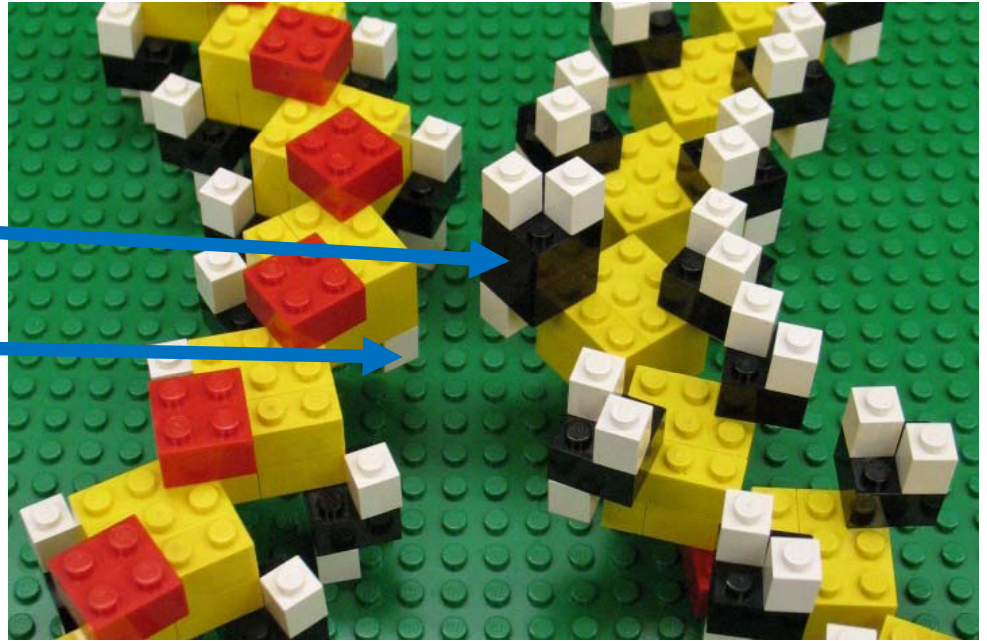
Side view



Polydimethylsiloxane crosslinking via a hydrosilation reaction

The large yellow silicon atoms can be made by placing a 1x3 brick and a 2x3 brick over 1x3 brick and another 2x3 brick.

Before crosslinking, oligomers contain vinyl groups and silane groups. (Note the chains are shown in opposite orientations.)



A hydrosilation reaction crosslinks the oligomers together.

