

Polydimethylsiloxane

Monomers for the condensation polymerization:

Color key:

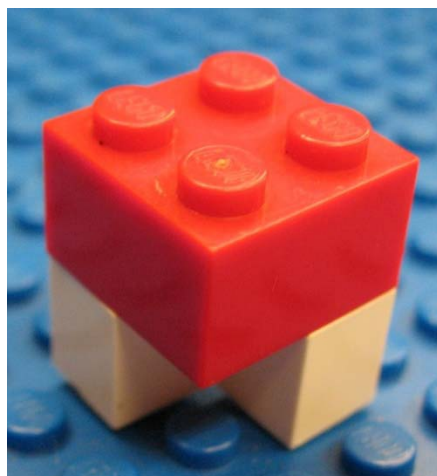
yellow = silicon

black = carbon

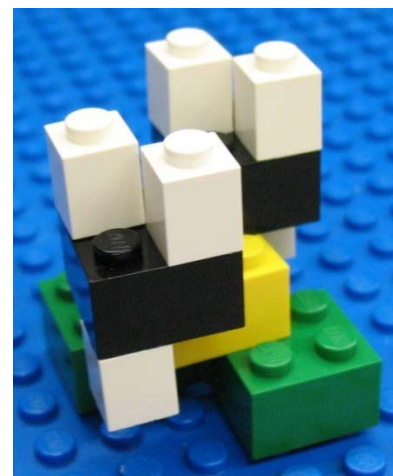
white = hydrogen

red = oxygen

green = chlorine

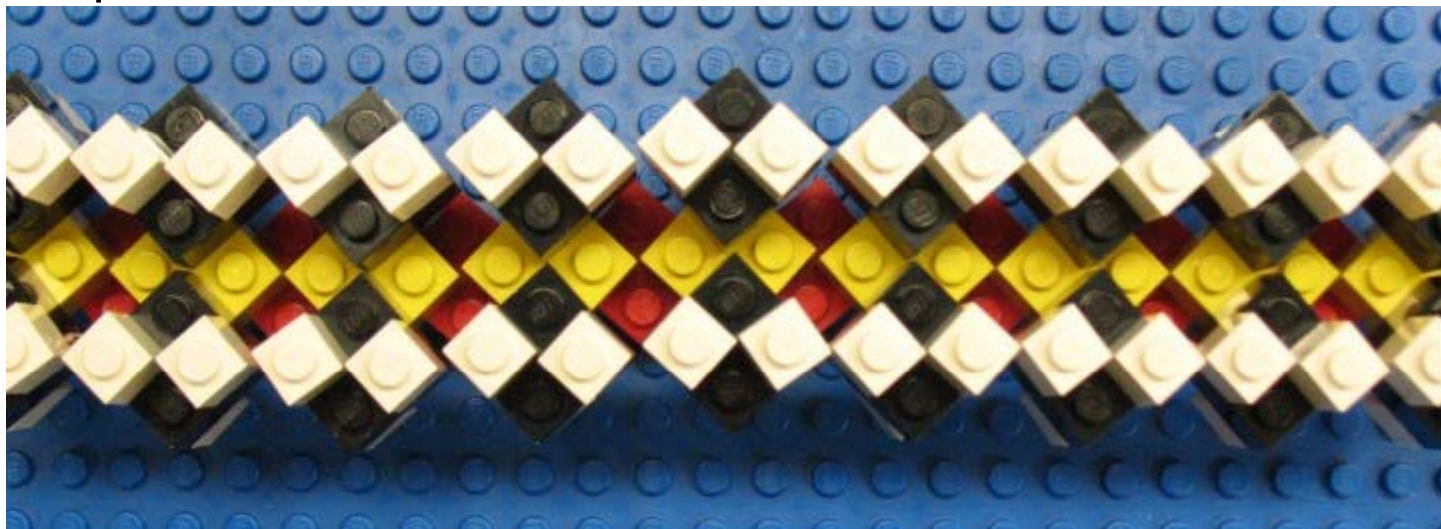


water

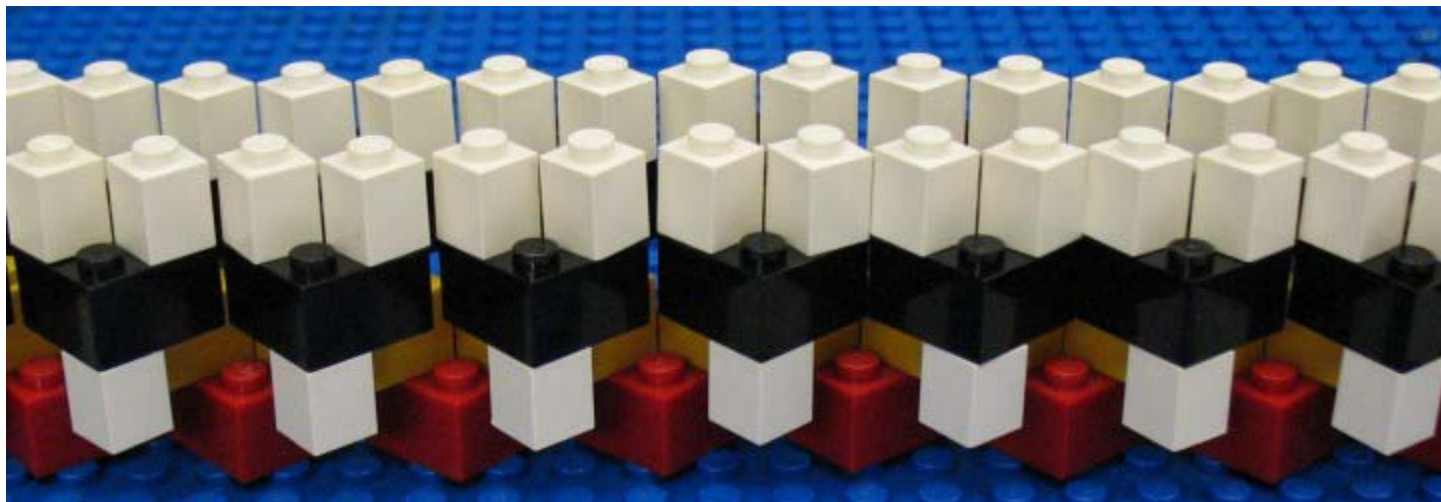


dichlorodimethylsilane

Top view



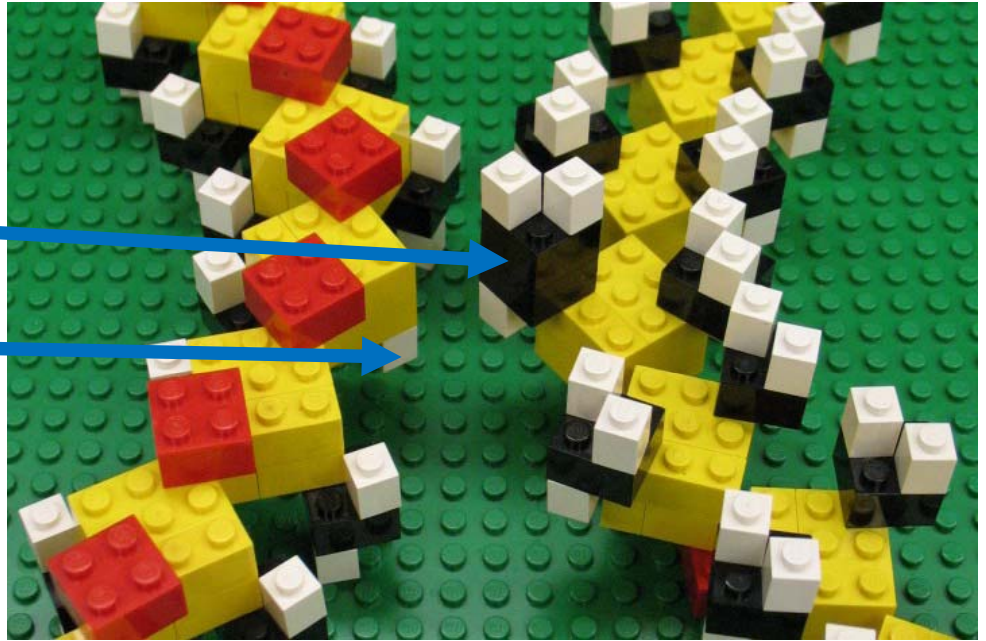
Side view



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.

