

Nylon-6,6

Monomers for the condensation polymerization:

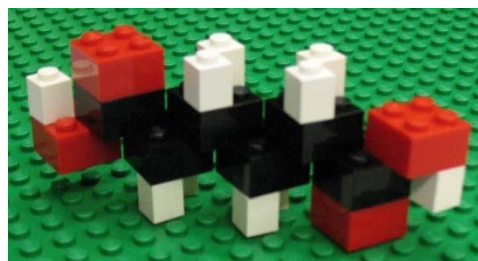
Color key:

black = carbon

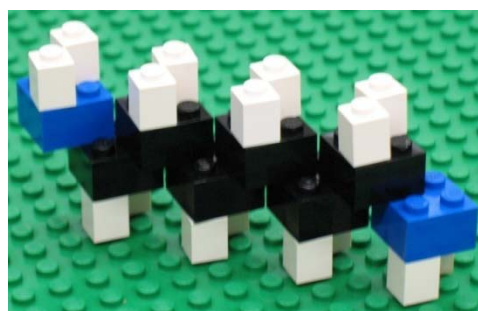
white = hydrogen

red = oxygen

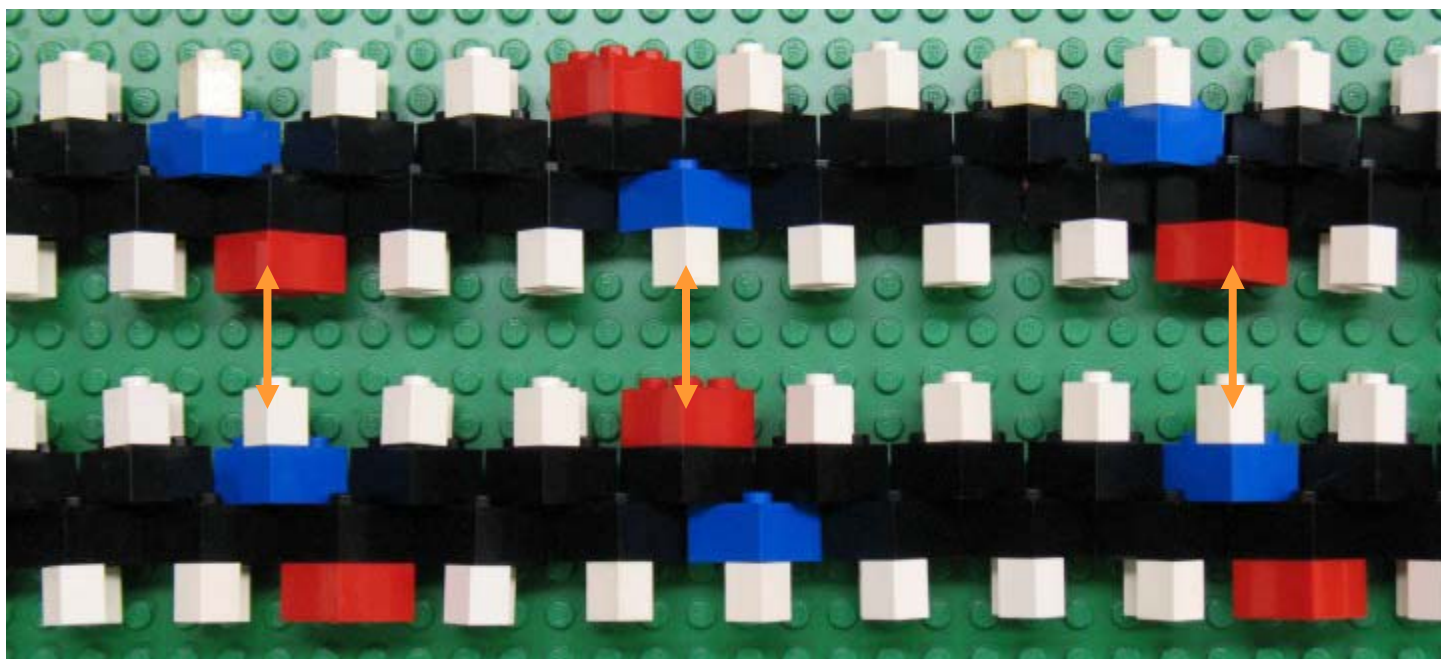
blue = nitrogen



hexanedioic acid



1,6-diaminohexane



Hydrogen bonding (orange arrows) between oxygen atoms on one polymer strand and hydrogen atoms attached to nitrogen atoms on an adjacent polymer strand help to give nylon its strength.