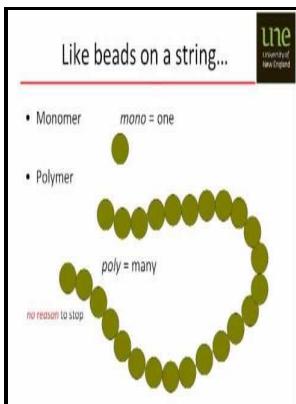


# Introduction to polymers

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Ring opening polymerization can occur without the loss of any small molecules. Carbon-chain polymers with double bonds along the chain such as the diene elastomers—polyisoprene and polybutadiene—are called polyalkenylenes.

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Figure 1-2 Ring-opening polymerization of trioxane. Indeed, applications of these materials as fibers, flexible films, adhesives, resistant paints and tough but light solids have transformed modern society.

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In this case, two molecules of hydrogen chloride are formed for each repeating unit. In some cases, naturally occurring polymers can also be produced synthetically. Principal examples of thermosets include epoxy, phenol-formaldehyde resins, and unsaturated polyesters that are used in the manufacture of glass-reinforced composites such as Fiberglas see Section 7.

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Most important addition polymers are polymerized from olefins and vinyl-based monomers.

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