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## **Polymer engineering - Wikipedia**

Summary Students learn the concept behind the engineering design of a polymer brush—a coating consisting of polymers that is “tethered” to a particular surface. Polymer brushes can be used on water filtration membranes as an antifouling coating.

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A popular polymer to use in schools is acrylic. This can be heated and bent using a line bender and, as it is a thermoforming polymer, it can then be reheated and reshaped.

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Engineering design with polymers and composites. James C Gerdeen ; Ronald A L Rorrer The authors explore the properties of polymers and apply this knowledge to the analysis and design of mechanical components. Useful appendices supply MATLAB code and composite material properties.

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