

POLYMERS

POLYMERS AND PLASTICS

Plastics are specific types of polymers, although both terms are often used interchangeably, both consists of long molecular chains



LOW COST AND LIGHT WEIGHT



The most common reason why polymers are used to replace other materials is that they are low-cost and have a very light weight

EASY TO MANUFACTURE

Polymers can be easily moulded, extruded or 3D printed to the wanted form



SOFT AND DUCTILE

Polymers do not crack easily but can be easily deformed



ABSORBS MOISTURE AND SOLVENTS

Polymers absorb moisture and solvents which may cause lots of different stability and reliability problems

THERMALLY UNSTABLE

Most polymers cannot withstand high temperatures



AFFECTED BY ENVIRONMENT

Environmental conditions and long term exposure often changes the properties of polymers