

Fibre Science

TEXT-321

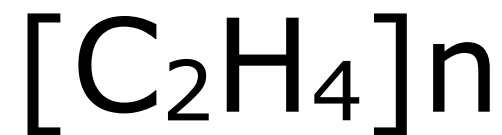
Synthetic vs Natural

How natural is natural?

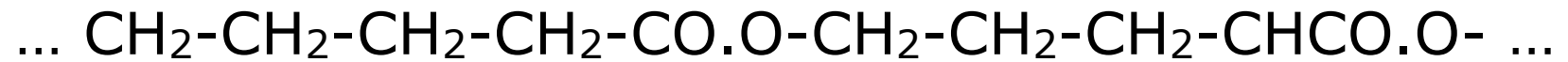
Molecular Features

- CH₂ -	- CO.O -	- CO.NH -	- C₆H₄ -
Methylene	Ester	Amide	Aromatic ring

Polyethylene



Polyesters (Aliphatic)

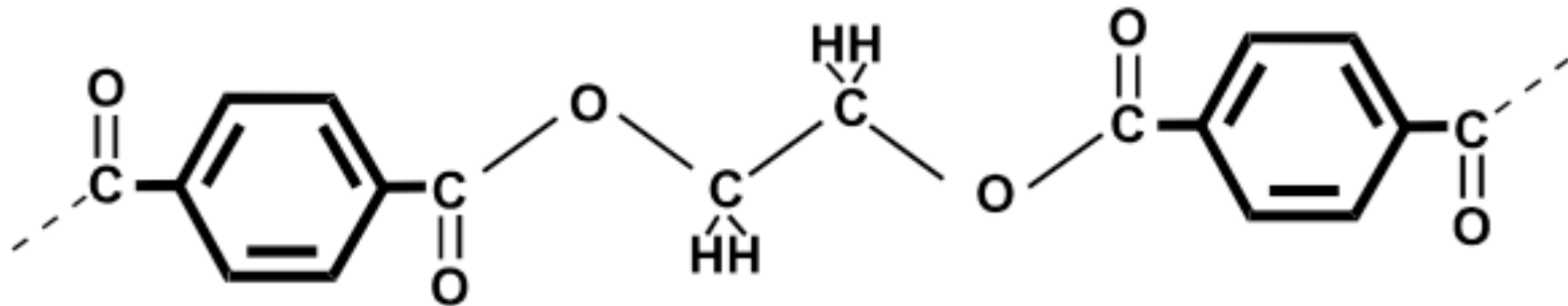


Polyamides (Aliphatic)

... -CH₂-CH₂-CH₂-CH₂-CH₂-CO.NH-CH₂-CH₂-CH₂-CH₂-CH₂-CO.NH- ...

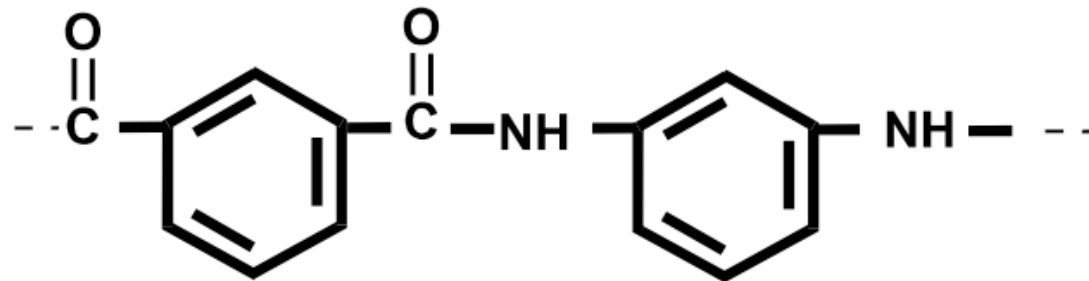
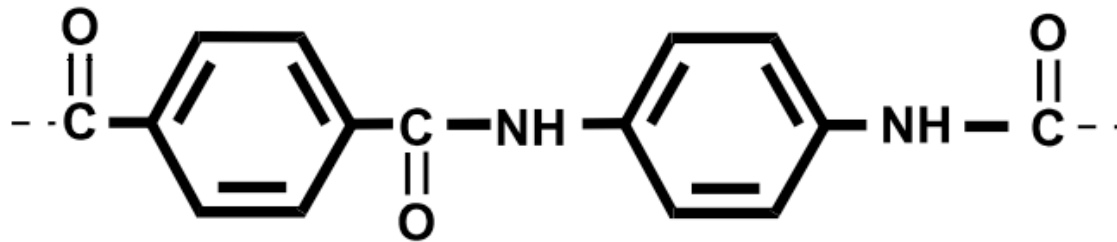
Polycaprolactum

Polyesters (conventional)

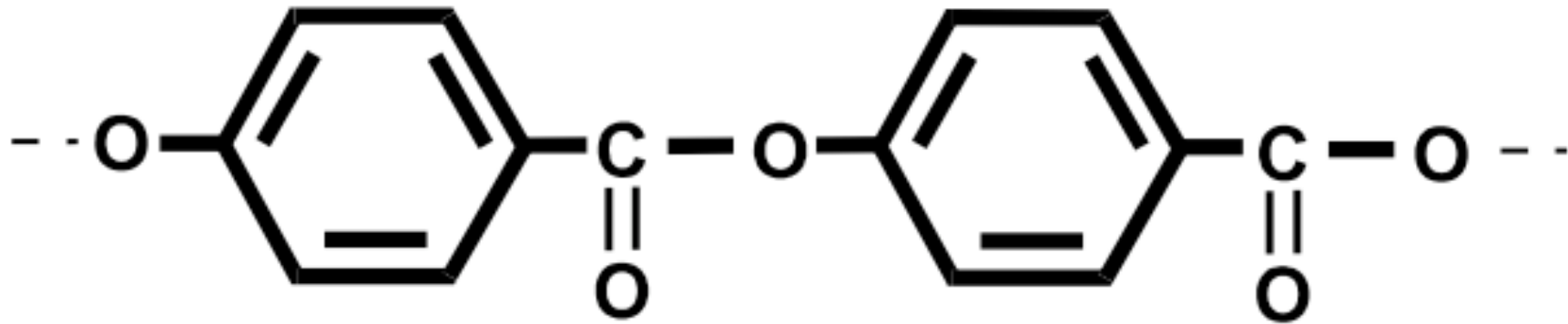


Poly (ethylene terephthalate)

Aromatic polyamides



Fully aromatic polyesters



poly(paraoxybenzoate)