

Prob. hw1

Give chemical formulas of the following important polymers:

Commodity polymers

PE (polyethylene)

PPr (polypropylene)

PVC (polyvinyl chloride)

PS (polystyrene)

Engineering polymers

PA (polyamide/nylon)

PC (polycarbonate/Lexan)

POM (polyoxymethylene/Delrin)

Elastomers

Isoprene

Butadiene

Polyisobutylene

Chloroprene

Specialty polymers

PMMA (polymethyl methacrylate/Plexiglas)

PTFE (polytetrafluoroethylene/Teflon)

Fibers

PET (polyethylene terephthalate/Dacron)

PAN (polyacrylonitrile/Orlon)

PPTA (polyphenylene terephthalamide) (polyaramid/Kevlar)

PBO (polybenzobisoxazole/Zylon)