Polymers Chem 306 Roper

MONOMER NAME	MONOMER STRUCTURE	POLYMER NAME	USES
Ethylene	H_2C — CH_2	Polyethylene	Packaging, bottles
Propylene	н₂с — сн—сн₃	Polypropylene	Bottles, rope, pails, medical tubing
Vinyl chloride	н ₂ с — сн—сі	Poly(vinyl chloride)	Insulation, plastic pipe
Styrene	н ₂ с—сн—	Polystyrene	Feams and molded plastics
Styrene and butacliene	H ₂ C—CH— and H ₂ C—CHCH—CH ₂	Styrene-butadiene rubber (SBR)	Synthetic rubber for thes
Acrylonitrile	H ₂ C −− C −− C −− N	Orlen, Acrilan	Fibers, outdoor carpeting
Methyl methacrylate	H₂C − CCOCH₃ CH₃	Plexiglas, Lucite	Windows, contact lenses, fiber optics
Tetrafluoroethylene	F ₂ C—CF ₂	Teflon	Nonstick coatings, bearings replacement heart valves and blood vessels

Symbol	Acronym	Full name and uses	
	PET	Polyethylene terephthalate - Fizzy drink bottles and frozen ready meal packages.	
2	HDPE	High-density polyethylene - Milk and washing-up liquid bottles	
	PVC	Polyvinyl chloride - Food trays, cling film, bottles for squash, mineral water and shampoo.	
	LDPE	Low density polyethylene - Carrier bags and bin liners.	
25)	PP	Polypropylene - Margarine tubs, microwave- able meal trays.	
	PS	Polystyrene - Yoghurt pots, foam meat or fisl trays, hamburger boxes and egg cartons, vending cups, plastic cutlery, protective packaging for electronic goods and toys.	
	Other	Any other plastics that do not fall into any of the above categories. For example melamine, often used in plastic plates and cups.	