

## PBC Design Specifications

CONSTRUCTION.....	Polypropylene Homopolymer plastic			
	1. Latex Free			
	2. Non-Hazardous (OSHA Standards 1910.1200)			
	3. Ignition Temperature 1058°F			
	4. Flash Point 650°F			
	5. MSDS # C4001Q			
DIMENSIONS.....	Height 3 inches			
	Length 12.5 inches			
	Width 4 inches (5 inches total including attaching hooks)			
COMPARTMENT SIZE.....	Denture	3 inches high	3.8 inches wide	4.25 inches long
	Glasses	3 inches high	3.8 inches wide	5.75 inches long
	Hearing Aid	3 inches high	3.8 inches wide	1.85 inches long
WEIGHT.....	10.4 ounces			

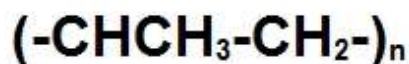
## GENERAL CONSIDERATIONS

1. CLEANING PROCEDURES..... Sanitizable through commercial dishwasher. Construction material is capable of maintaining a uniform shape to 300°F water temperature.
2. WORKING ENVIRONMENT..... Optimal temperature between 50°F and 85°F.
3. HEALTH CONSIDERATIONS..... None. No known chronic health effects have been observed with normal product use. (Sunoco Chemicals Corporation)

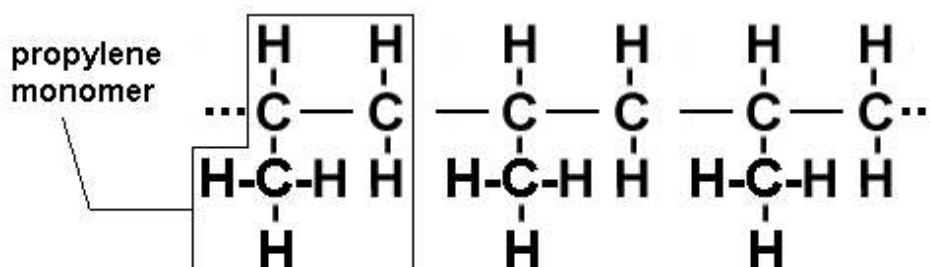
## Durable Personal Belongings Case

### Polypropylene (PP)

MOLECULAR FORMULA:



OR



The C=C double bond in each monomer is transformed into a C-C single bond in the polymer.



**Properties:** toughness, strength, resistance to heat, grease, oil, and chemicals, barrier to moisture. Density: 0.90-0.92 g/cc

**Statistic:** In 1999 PP accounted for 2% of plastic bottle resin sales.

**Description:** Polypropylene has the lowest density of the resins used in packaging. It is strong and is resistant to chemicals. Since it has a high melting-point it can be utilized in applications requiring that a container be filled with a hot liquid.

**Packaging applications:** Yogurt containers, syrup bottles, ketchup bottles, caps, straws, medicine bottles

**Recycled products:** Signal lights, battery cables, brooms, brushes, auto battery cases, ice scrapers, landscape borders, bicycle racks, rakes, bins, pallets, and trays

