

## POLYPROPYLENE (PP)

### COMMONLY USED FOR

- Prescription bottles
- Most bottle tops
- Ketchup and syrup bottles
- Yogurt and margarine containers
- Potato chip bags
- Drinking straws
- Hinged lunch boxes
- Fabric/carpet fibers
- Heavy-duty bags
- Hot food containers
- Packing tape
- Thermal vests
- Car parts
- Disposable diapers
- Sanitary pad liners

### PROPERTIES

- Excellent chemical resistance
- High melting point
- Hard but flexible
- Waxy surface
- Translucent
- Strong



### TOXINS/HEALTH RISKS

PP is considered a safer plastic option for food and drink use, as it can withstand high temperatures and thus is less likely to leach chemicals. However, studies have found that PP could potentially leach some chemicals that could lead to asthma or hormone disruption.

### CAN BE RECYCLED INTO

- Shipping pallets
- Automotive battery cases
- Brooms
- Shovels
- Watering cans
- Mixing bowls
- Cutting boards
- Ice scrapers
- Storage bins

## HIGH-DENSITY POLYETHYLENE (HDPE)

### COMMONLY USED FOR

- Milk jugs
- Non-carbonated drink bottles
- Motor oil containers
- Shampoos and conditioner bottles
- Soap bottles
- Detergent bottles
- Bleach bottles
- Snack food boxes
- Cereal box liners
- Toys
- Buckets
- Rigid pipes
- Crates
- Plant pots
- Garden furniture
- Refuse bins and compost containers
- Park benches
- Truck bed liners

### PROPERTIES

- Excellent moisture barrier
- Excellent chemical resistance
- Hard to semi-flexible and strong
- Soft waxy surface
- Permeable to gas
- HDPE films crinkle to the touch
- Pigmented bottles are stress-resistant



### TOXINS/HEALTH RISKS

HDPE is the most commonly recycled plastic and is considered one of the safest forms of plastic. It is a more stable form of plastic than PET, but while it is considered a safer option for food and drinks, it is never safe to reuse HDPE plastic for food or drink if it did not originally contain either. Some studies have shown that HDPE can leach estrogen-mimicking chemicals that could disrupt your hormones and even alter the structure of human cells.

### CAN BE RECYCLED INTO

- HDPE is the most commonly recycled plastic and can also be reused.
- It is recycled into:
- Plastic bottles and jugs
  - Plastic lumber
  - Outdoor furniture
  - Playground equipment
  - Fencing
  - Rope
  - Toys