

PVC FREE FILMS - Polypropylene



Polypropylene, abbreviated as PP, is a recyclable thermoplastic polymer widely used in many different products. PP is rugged and resistant to different chemical solvents, acids, and bases. PP's resin identification code is 5, and it is recyclable.

Polypropylene is produced from petroleum or natural gas by a polymerization process. These polymers are solid thermoplastics that can be processed by extrusion and by molding or injection.

The Most modern PP production processes are free of liquid or gaseous effluents. Being made of 99% of carbon and hydrogen, harmless and abundant elements in nature, this plastic is chemically non-polluting.

The Polypropilene Recycling process:

The recycling process involves five steps namely collection, sorting, cleaning, reprocessing by melting and producing new products from recycled PP

The first three steps are the same as recycling most other commodities. But the last two are critical. In the reprocessing phase, collected PP products are fed into an extruder where it is melted at 4,640 °F (2,400 °C) and cut into granules. These pellets are then ready for use in the production of new products.

These granules are ready for use in the production of new products including:

- Clothing fibers
- Industrial fibers
- Food containers
- Crockery
- Compost bins
- Speed humps
- Gardening appliances (compost bins, garden borders and flower pots)