



## What is Polypropylene (PP)?

Polypropylene (PP) is a thermoplastic "additive polymer" made from a combination of propylene monomers. It is used in a variety of applications to include packaging for consumer products, special items such as plastic parts for various industries including the automotive industry, live hinges and textile products. Polypropylene was first polymerized by Paul Hogan and a pair of Phillips oil scientists named Robe in 1951. The banks and later the Italian and German scientists Natta and Rehn. Italian chemist Professor Giulio Natta came to the forefront very quickly, three years after the first polymerization, only three years after commercial production. Natta perfected and synthesized the first polypropylene resin in Spain in 1954, and the ability to crystallize polypropylene created a lot of excitement. By 1957, its popularity exploded and widespread commercial production began throughout Europe. Today it is one of the most produced plastics in the world.

## Daily use

The use of polypropylene is numerous, depending on how versatile this product is. According to some reports, the global market for this plastic is 45.1 million tons, which is equivalent to a consumer market of about \$ 65 billion. Used in products as follows:

- Plastic parts - from toys to car products
- Carpet covering - in all kinds of carpets, carpets and flooring
- Reusable products - especially in containers and similar products
- Paper - is used in various applications for stationery and other writing bindings.
- Technology - usually available in speakers and similar devices
- Laboratory equipment - everything that contains plastics.



PP1



PP2



PP3



PP4