



# Polypropylene

PP, Polypro, Polypropene

## Description and Overview

Polypropylene is a versatile, lightweight thermoplastic with high strength, chemical, moisture and corrosion resistance. Polypropylene is easily vacuum formed, thermoformed, fabricated, hot air welded and machined.

Copolymer polypropylene provides outstanding toughness and performs well at temperatures as low as -220°F.

Homopolymer polypropylene is very strong and extremely resistant to chemicals, corrosion and heat.

## Applications and Uses

Polypropylene is used in a wide variety of applications including packaging and labeling, orthotics and prosthetics, laboratory equipment, chemical tanks and automotive components.

- Chemical, plating and water tanks
- Semiconductor equipment
- Cabinets and work surfaces
- Orthotics and prosthetics

Fluted polypropylene is a lightweight and cost-effective solution for signage and packaging applications.

- Signage
- Construction
- Shelter
- Packaging
- Lamination



Polypropylene is available in copolymer & homopolymer sheets & rods. Fluted polypropylene is also available.

Full sheet: 48" x 96" (0.125" through 2.0" thick)  
Rod: (0.125" through 4.0" diameter)

## Properties and Specifications

Property	Copolymer	Homopolymer
Specific Gravity	0.91	0.91
Water Absorption @ 24 hrs.	<0.1%	<0.1%
Tensile Strength @ Yield (psi)	3,500	4,700
Flexural Modulus (psi)	155,000	180,000
Continuous Operating Temp	180°F	180°F
Izod Impact, Notched (ft-lbs/in.)	8.0	1.0
Hardness, Rockwell	M70/R118	M70/R118
Affixable Properties	Mech	Mech

Properties are typical.  
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.  
Mech is an abbreviation for mechanically affixed bonding.  
Field testing is recommended for any application.

