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 -22°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

Properties and Specifications

<table>
<thead>
<tr>
<th>Property</th>
<th>Co-polymer</th>
<th>Homopolymer</th>
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<tbody>
<tr>
<td>Specific Gravity</td>
<td>0.91</td>
<td>0.91</td>
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<tr>
<td>Water Absorption @ 25 Hours</td>
<td>&lt;0.1%</td>
<td>&lt;0.1%</td>
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<tr>
<td>Tensile Strength @ Yield (psi)</td>
<td>3500</td>
<td>4700</td>
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<tr>
<td>Flexural Modulus (psi)</td>
<td>155,000</td>
<td>180,000</td>
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<tr>
<td>Continuous Operating Temp</td>
<td>180°F</td>
<td>180°F</td>
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<tr>
<td>Izod Impact, Notched (ft-lbs/in.)</td>
<td>8.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Hardness, Rockwell</td>
<td>M70/R118</td>
<td>M70/R118</td>
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</tbody>
</table>

Affixable Properties          Mech

Polypropylene is available in copolymer & homopolymer sheets & rods. Medical grades & fluted polypropylene are also available.

Full Sheet: 48”x96” (0.125” through 2.0” thick)
Rod: (.125” through 4.0” diameter)

WARNING: This product can expose you to chemicals including Ethylene Oxide, CAS 75-21-8, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

WARNING: This product can expose you to chemicals including Ethylene Oxide, CAS 75-21-8, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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