Polypropylene is widely used for:
- Chemical and plating tanks
- Fire truck water tanks (copolymer polypropylene)
- Cutting boards for food preparation
- Semiconductor equipment cabinets and work surfaces
- Lower & upper extremity orthoses: body jackets, AFOs, KAFOs, DAFOs, helmets, splints (O&P)
- Rigid, outer prosthetic sockets (O&P)

Performance characteristics:
- Easy to weld using thermoplastic welding equipment
- Easy to fabricate, seam, and drape and blister form (O&P)
- Easy to decorate with transfer patterns (O&P)
- Low moisture absorption; good chemical resistance
- Extremely tough (copolymer)
- Excellent aesthetic properties

Common brands:
- Orthoform®
- SIMOLIFE
- Polystone®
- ProComp

Available in:
- Sheet
- Rod

**Typical Properties of Polypropylene**

<table>
<thead>
<tr>
<th>Property</th>
<th>Units</th>
<th>ASTM Test</th>
<th>Polypropylene</th>
<th>Polypropylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>psi</td>
<td>D638</td>
<td>5,400</td>
<td>3,800</td>
</tr>
<tr>
<td>Flexural modulus</td>
<td>psi</td>
<td>D790</td>
<td>225,000</td>
<td>215,000</td>
</tr>
<tr>
<td>Izod impact (notched)</td>
<td>ft-lbs/in of notch</td>
<td>D256</td>
<td>1.2</td>
<td>12.5</td>
</tr>
<tr>
<td>Heat deflection temperature @ 264 psi</td>
<td>°F</td>
<td>D648</td>
<td>210</td>
<td>190</td>
</tr>
<tr>
<td>Maximum continuous service temperature in air</td>
<td>°F</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Water absorption (immersion 24 hours)</td>
<td>%</td>
<td>D570</td>
<td>slight</td>
<td>slight</td>
</tr>
<tr>
<td>Coefficient of linear thermal expansion</td>
<td>in/in/°F x 10^-5</td>
<td>D696</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Values may vary according to brand name. Please ask your Curbell Plastics representative for more specific information about an individual brand.