O&P Materials:

- ABS
- Polypropylene
- HDPE / LDPE
- PETG (Vivak®)

Cut-to-Size • On-time Delivery • 16 U.S. Locations • Superior Customer Service
Total Plastics, Inc.™ offers a variety of materials for your orthotic and prosthetic needs. TPI’s on-time delivery, experienced staff, competitive prices and value-added services, such as cut-to-size, make us your total plastics source. Call your local TPI Sales Representative to find your solution, the following materials are suitable for O&P applications and more.

**ABS**
- High strength and stiffness
- Abrasion resistant
- Good chemical resistance
- Good impact resistance
- Can be bonded, glued, painted, silk screened and hot stamped
- Easy to machine

Call TPI for Available Sizes, Colors and Finishes.

**HDPE (High Density Polyethylene)**
- Meets FDA/USDA food handling guidelines (natural color)
- Chemical- and corrosion-resistant
- Lightweight
- No moisture absorption
- High tensile strength
- Non-toxic
- Non-staining
- Thermoforming performance
- Available in both extruded (up to 1" thick) and pressed sheet (from 1/16" through 4" thick).

Color: Natural and Black* (Stress Relieved)
Sheet Sizes: 48" x 96" and 60" x 120"
Thickness Range: 1/16" to 4"
*Black available in 48" x 96" in thicknesses of 1/8" to 1" only

**LDPE (Low Density Polyethylene)**
- Lightweight
- Good impact resistance
- Extremely flexible (Good for drape or vacuum forming)
- Easily cleaned
- Thermoforming performance
- Meets food handling guidelines
- No moisture absorption
- Chemical- and corrosion-resistant

Color: Natural (Stress Relieved)
Sheet Sizes: 48" x 96"
Thickness Range: 1/16" to 1"

**Proteus® O&P Grade (Polypropylene)**
- Thermoforming performance
- Specially made for orthotic & prosthetic applications
- Rigid form of polypropylene used where high stiffness is required
- Typical Flexural Modulus: 195,000 PSI
- Lot-to-lot consistency and formability
- Chemical- and corrosion-resistant
- No moisture absorption

Color: Natural (Stress Relieved)
Sheet Sizes: 48" x 96"
Thickness Range: 1/16" to 1/4"

**Proteus® Co-Polymer (Polypropylene)**
- Inexpensive
- Easy to fabricate
- High impact resistance strength
- Better resistance to cracking at low temperatures than homopolymer
- More pliable than homopolymer
- Meets food handling guidelines
- Chemical- and corrosion-resistant
- No moisture absorption
- FDA and 3-A Dairy Compliant

Color: Natural (Stress Relieved)
Sheet Sizes: 48" x 96" and 48" x 120"
Thickness Range: 1/8" to 2"

**Proteus® Homopolymer (Polypropylene)**
- High strength-to-weight ratio
- Appropriate for applications to 180 °F (82 °C)
- Resists most acids, alkalis and solvents
- Meets FDA 21CFR 177.1520
- Thermoforming performance
- USDA, NSF and 3-A Dairy Compliant (natural color only)
- Chemical- and corrosion-resistant
- No moisture absorption

Color: Natural (Stress Relieved)
Sheet Sizes: 48" x 96", 48" x 120" and 60" x 120"
Thickness Range: 1/16" to 3"

Call TPI for Available Sizes.