Total™ Plastics Inc.
LIFE SCIENCES

Your Total Medical Plastics Source

ORTHOTIC & PROSTHETIC MATERIALS

866.856.6825
www.totalplastics.com

O&P Materials:

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

Cut-to-Size • On-time Delivery • 16 U.S. Locations • Superior Customer Service

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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 " 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: 1/6" to 1"

VIVAK® (PETG)
- Transparent
- Superior impact strength over acrylic
- Less expensive than polycarbonate
- Die-cuts and punches easily
- Can be bonded, glued, painted, silk screened and hot stamped
- Easy to fabricate

Call TPI for Available Sizes.

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 Complaint (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"

VIVAK® orthotic device