

# Plastics for Medical Applications



## Benefits of Plastics:

- Withstand repeated sterilization cycles (autoclave, gamma radiation, and ETO)
- Medical grades to comply with agency standards including FDA, USP Class VI, and ISO 10993-5
- Lot and batch traceability
- Toughness and durability
- Electrical insulating properties

## Plastic materials to fulfill your needs

Curbell Plastics has materials to meet the demanding requirements of the medical equipment industry. We recognize that medical device manufacturers require durable FDA, USP Class VI, and ISO 10993-5 compliant materials that stand up to repeated sterilization. Our ISO 9001:2008 facilities meet the most rigorous quality management documentation requirements.

Plastics are used for a range of medical applications including housings, flexible tubing, implant sizing trials and surgical instrument handles and trays.

## Material selection, expert advice

*"Curbell worked with our designers to replace a painted metal housing with a formed plastic one. This saved cost and weight and improved the aesthetics of our product".*

~ Curbell Customer Feedback



## TYPICAL APPLICATIONS:

- Bearings and bushings
- Electrical insulators
- Flexible tubing
- Housings
- Implant sizing trials
- Knobs
- Leur locks
- Manifolds
- Pump components
- Seals
- Surgical instrument trays
- Surgical instrument handles
- Valve components

## COMMON MATERIALS:

- ABS
- Acetal
- Acrylic
- Delrin®
- Flexible tubing
- HDPE
- ISO 13485-certified UV-curable adhesives
- Kydex® thermoplastic sheet
- Kynar® PVDF
- Nylon
- PEEK
- Polycarbonate
- Polypropylene
- Polysulfone
- PPS
- PTFE
- Radel® R
- UHMW
- Ultem®

Available quality control procedures and services include lot and batch traceability, ultrasonic testing, and certificates of analysis showing that resins are from approved suppliers. Please note that these products are not recommended or intended for use as permanent implants.

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PLASTICS

[www.curbellplastics.com](http://www.curbellplastics.com)  
1.888.CURBELL (287-2355)

# Curbell Plastics carries a full line of plastic materials and more...

## Engineering Materials

- ABS
- Acetal
- Acrylic
- CPVC
- Delrin®
- DuPont™ Vespel® Polyimide Shapes
- ESD materials
- ETFE
- FEP
- FM4910 materials
- Food grade materials
- FR-4
- G-10
- GPO - 1, 2, and 3
- Halar® (ECTFE)
- HDPE (high density polyethylene)
- HYDEX® 4101 (PBT)
- KYDEX® thermoplastic sheet
- Kynar® (PVDF)
- LDPE (low density polyethylene)
- Makrolon®
- Medical grade materials
- Metal detectable materials
- Noryl®
- NYLOIL®
- Nylon
- Nylon MD
- PBT
- PEEK
- PET
- PETG
- PFA
- Phenolic
- Polyamide-imide
- Polycarbonate
- Polyethylene
- Polypropylene
- Polystone®
- Polystyrene
- Polysulfone
- PPS (polyphenylene sulfide)
- PTFE
- PVC
- PVDF
- RADEL® R
- SANATEC®
- SentryGlas®
- Sustamid®
- SustaPEEK
- Sustarin®
- TECAFORM®
- TECAMID®
- TECAPEEK®
- TECAST VEKTON™
- Thermoset laminates
- UHMW-PE
- Ultem® (PEI)
- Urethane
- X-ray detectable materials

## Sign, Visual Merchandising, & Print Materials

- ABS
- Acrylic
- Acrylic, impact modified
- Acrylic mirror
- Acetate film and sheet
- Cast acrylic sheet
- CELTEC®
- Coroplast®
- Designboard®
- Dibond®
- Double patterned acrylic sheet
- DP-32 patterned acrylic sheet
- DURAPLAST®
- Dry erase board
- Engraving stock
- Ergonomic/anti-fatigue matting
- Expanded PVC
- FABBAC® mirror
- FiberMate™
- Flexible tubing
- Fome-Cor®
- Gatorfoam®
- Gatorplast®
- HDPE (high density polyethylene)
- HDU board
- HIPS film
- InSite®
- InteCel®
- InteClear™
- InteFoam®
- JetMount®
- KYDEX® thermoplastic sheet
- LDPE (low density polyethylene)
- Magnet board
- Makrolon®
- Mirror
- MUSTANG® Copolyester
- OPTIX®
- PETG
- Plastic lumber
- PLEXIGLAS®
- Polycarbonate sheet, mirror
- Polypropylene
- Polystyrene
- Precision Board Plus™
- PVC
- Rigid foams
- Ryno Board®
- See-thru mirror
- Simopor (light, color, digital)
- Sintra®
- Soft foams
- Solacryl® SUVT (UV transmitting acrylic)
- Spectar®
- Styrene
- Twin wall polycarbonate sheet
- Ultra Board
- Urethane foam board
- Vinyl
- VIVAK® PETG

## Plastic Films

- Acetate
- Acrylic
- Calendered vinyl
- Hardcoated film
- HDPE
- HIPS
- Kynar® PVDF
- LDPE
- Light diffusing film
- Makrofol® polycarbonate film
- Nylon
- PEEK
- PEN
- PETG
- Polycarbonate
- Polyester
- Polyimide
- Polypropylene
- Press polished vinyl
- Pressure sensitive vinyl
- PVC
- Scratch resistant vinyl
- Sign vinyl
- Static cling vinyl
- Styrene
- UHMW
- Ultem®
- Vinyl

## Prototyping, Mold Making, & Tooling Materials

- DSM Somos® SLA resins
- Momentive silicone mold making materials
- PTM&W liquid casting and laminating epoxies and casting urethanes
- RAMPF® modeling and tooling board

## Adhesives & Sealants

- 3M™ adhesives and tapes
- Aerosols
- Anaerobics
- Bostik adhesives
- Bulk dispensing equipment and cartridges
- Cyanoacrylates
- Epoxies
- Hot melts
- IPS® SCIGRIP®
- Methacrylates
- Momentive RTV silicones
- ITW Plexus® and ITW Devcon®
- Structural adhesives
- Urethanes
- Silane-terminated, Isocyanate-free polyurethanes
- UV adhesives

## Tapes, Fabrics, & Belts

- 3M™
- Aisle marking tape
- Anti-static fiberglass fabric
- Application tape
- Band Sealing Belts
- Circuit board tape
- Crepe paper masking tape
- Differential adhesive tape
- Double sided tape
- Fiberglass cloth tape
- Fluorescent tape
- Foam Tape
- Friction tape
- Gaffer's tape
- Glow-in-the-dark tape
- Heat sealing tape
- HVOF Tape
- Magnetic tape
- Mechanical grade belts
- Metal foil tape
- Mounting tapes
- Mylar®/polyester tape
- Plating tape
- Polyester splicing tape
- Polyimide tape
- PTFE coated fiberglass tapes, fabrics, and belts
- PTFE high modulus tape
- PTFE skived tape
- Reflective tape
- Tear/crease resistant fabrics
- Thermal spray tape
- Transfer tape
- UHMW wear tapes
- Ultra high bond tapes
- VHB™ tape
- Vinyl tape
- Window glazing tape

## Orthotic & Prosthetic Materials

- Covering and cushioning
- Fabrication supplies
- Foams
- Plastic sheet
- Prosthetic materials
- Transfer paper

## OUR NATIONWIDE LOCATIONS OFFER:

- Local inventory
- Just-in-time delivery
- Cut-to-Size / Custom Cutting
- Packaging & Kitting
- Custom services
- Technical consult

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## Our material partners:



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