

Plastics for Scientific Instrumentation and Analytical Equipment



Benefits of plastics:

- Can operate in high and low temperatures
- Can perform in vacuum or high pressure environments
- Excellent electrical insulating properties
- Highly pure to minimize the likelihood of sample contamination
- Excellent wear resistance
- Resist degradation (from radiation, steam, chemicals)

High performance materials to fulfill your needs

Curbell Plastics has materials to meet the demanding performance requirements of scientific, testing, and process control instrumentation. We know that materials used in instrumentation must perform well in extreme environments including corrosive chemicals, high and low temperatures, vacuum conditions, high pressure, and repeated sterilization.

Plastics are used for a wide range of scientific instrumentation applications including housings, guards, safety shields, structural parts, seals, electrical insulators, and bearing and wear components.

Material selection, expert advice

"Curbell worked with our designers to find a high temperature plastic with the right chemical resistance and sealing characteristics for our application. This helped us improve the operating performance of our instruments."

~ Curbell Customer Feedback



TYPICAL APPLICATIONS:

- Bearings and bushings
- Centrifuge parts
- Electrical insulators
- Electrophoresis machinery components
- Ferrules
- Flexible tubing
- Gas chromatograph components
- Gears
- Guards and shields
- Housings
- HPLC machinery components
- Manifolds
- Mass spectrometer components
- Pump components
- Seals
- Sterilizable parts
- Valve components

COMMON MATERIALS:

- ABS
- Acetal
- Acrylic
- Dupont™ Vespel® polyimide shapes
- HDPE
- KYDEX® thermoplastic sheet
- Kynar® PVDF
- Noryl®
- Nylon
- Optically-clear RTV silicone potting compounds
- PBT
- PEEK
- PET
- PETG
- Polycarbonate
- Polypropylene
- Polysulfone
- PPS
- PTFE
- PVC
- Radel® R
- Polyamide-imide
- UHMW
- Ultem®

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PLASTICS

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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