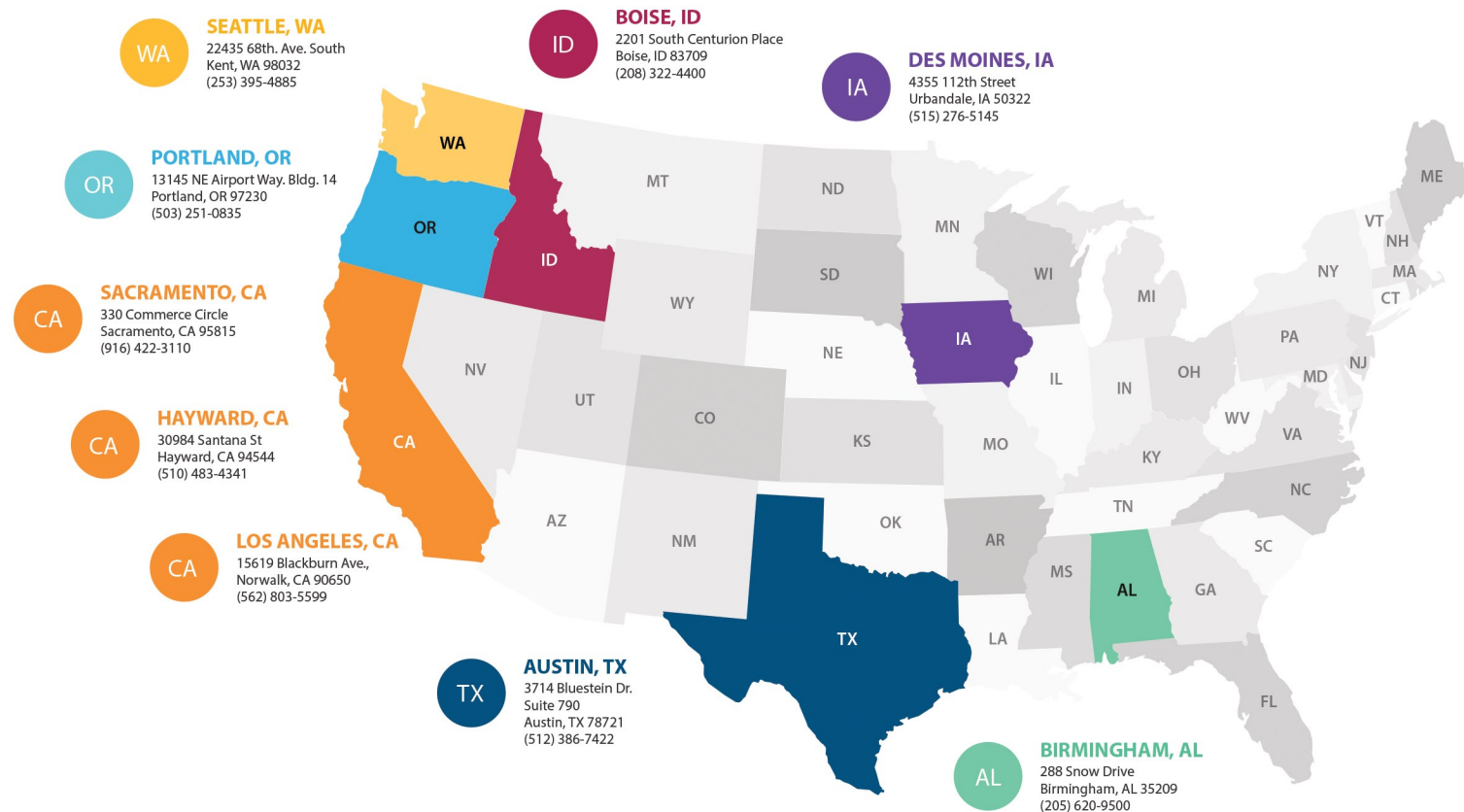


Performance Material Solutions

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1	General Purpose Engineering Plastics ABS, Acetal, Delrin®, Nylon, PVC, PET, Polycarbonate
2	Composite Materials, Thermosets Glass Epoxy, Phenolic
3	Olefin-Based Industrial Plastics HDPE, LDPE, Polypropylene, UHMW-PE
3	Fluoropolymer Plastics PTFE, PCTFE, PVDF, ETFE, FEP, Fluorosint®
5	High-Performance Engineering Plastics PEEK, Torlon®, Ultem®, Vespel®, Ertalyte®, Noryl®, PEI, PAI, PET, PPS
6	Static Controlled Materials (ESD) Acetal ESD, UHMW-PE Anti Static, Semitron® ESD, Ultem® ESD
7	Medical Grade Plastics Polypropylene HS, Medical Acetal, Radel®, PPSU, Medical PEEK
8	Forming Grade Plastics Kydex®, Boltaron®, High Impact Polystyrene, PETG, ABS
9	Transparent Plastics Acrylic, Polycarbonate, PETG, Twinwall & Multiwall

10	Industry Applications & Markets Served
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Material Characteristics	*Material descriptions and values are typical and may vary depending on the testing method used. Field testing should be performed for your specific use.
Amorphous	(A) Good formability with a wide softening temperature range. Bonds well. Poor chemical resistance and fatigue resistance. Prone to stress cracking.
Semi-Crystalline	(S) Used in structural, bearing, and wear applications. Good stress cracking and chemical resistance. Difficult to bond and does not form well.
Thermosets	(T) Easy to form. Great for structural and wear applications. Generally chemically and electrically resistant. Sets permanently after initial heating.
Imidized	(I) Resistant to chemicals and extreme temperatures. Great mechanical values, but does not bond well and is very difficult to form.
Fluoropolymer	(F) High resistance to temperatures, chemical reaction, corrosion, and stress-cracking. Exceptional non-stick and friction reducing properties.
Friction Coefficient Coefficient of Friction Ratios	Friction coefficient is indicated using a 1 to 10 scale. Plastics utilized for their low friction properties will receive a high score for having a low friction coefficient.
Cost Cost-Effective, Standard, Commodity, Specialty	Relative cost is indicated using a 1 to 10 scale, with one being the most cost-effective, and ten being the most expensive, generally reserved for highly specialty grades.
Temperature Range Maximum Service Temperature	The maximum service temperature is provided for the material. Temperatures are typical and may vary greatly depending on the material grade and application conditions.

General Purpose Engineering Plastics

Acetal Copolymer and Delrin® Homopolymer

Acetal and Delrin® are tough, high strength, low friction engineering plastics that perform well in both wet and dry environments. They have excellent dimensional stability for ease of machining and close tolerance parts. Copolymer acetal is more chemically resistant than homopolymer Delrin®.

S

6

4

180F

- Copolymer acetal generally features lower center-line porosity, and no porosity grade Acetron GP® is available
- Homopolymer Delrin® demonstrates high strength and stiffness in addition to good dimensional stability and very low moisture absorption rate
- Available in FDA compliant and glass-filled grades

Delrin® AF Blend – 13%

Delrin® AF 13% is a blend of Delrin® AF-100 and Delrin® 150 resins with excellent sliding/friction properties. Bearings made of Delrin® AF blend can operate at higher speeds while exhibiting reduced wear.

S

7

5

180F

- Perfect bearing material with desired PV values
- Eliminates slip-stick behavior
- Retains 90% of the strength that is inherent in unmodified acetal

(916) 422-3110

Nylon

Perfect for bearing and wear applications, nylon is a strong, stiff engineering thermoplastic with high toughness, dimensional stability, and wear resistance.

S

6

4

200F

- Outstanding resistance to chemicals and oxidizing agents
- Desirable abrasion and wear resistance
- Available in many grades to enhance specific properties as needed
- Ideal for dry environments

PVC – Type 1

PVC has an excellent resistance to oils and a low permeability to gases. It is ideally suited for applications where maximum chemical resistance is necessary.

A

5

2

140F

- Excellent corrosion, chemical and weather resistance
- UL94-V0 flame rating
- Extremely flame retardant

MD Filled Nylon

MD filled nylon contains molybdenum disulfide (MoS2), which offers higher rigidity and strength than unfilled grades. MD filled nylon is extruded or cast and exhibits a high heat distortion temperature than unfilled versions.

S

7

4

200F

- Lower coefficient of linear thermal expansion versus Nylon 101
- Achieves tighter tolerances and clearances with fewer tendencies to seize as bearings than unfilled grades
- Improved strength and rigidity

ABS – Engineering Grade

ABS is cost-effective with excellent chemical and stress resistance as well as an excellent combination of toughness, rigidity and creep resistance.

A

7

2

160F

- Easily machined
- Can be easily turned, drilled, milled, sawed, die-cut, and sheared
- Desirable impact, abrasion, moisture, chemical, and stress cracking resistance

Polycarbonate – Machine Grade

Machine grade polycarbonate is a thermoplastic that features exceptionally high impact strength, dimensional stability, stiffness, tensile, and impact strength. Machine grade polycarbonate also has a low linear expansion coefficient.

A

5

5

250F

- Available in glass reinforced grades for improved performance
- Heat deflection temperatures up to ~280F
- Great dielectric and thermal performance

PET

PET, a semicrystalline polyester, is a strong and stiff engineering plastic featuring excellent ease of machining, chemical resistance and desirable bearing and wear properties.

S

7

4

210F

- Low moisture absorption and thermal expansion properties
- Excellent bearing and wear resistance
- FDA compliant grades available

Composite Materials Thermosets

Phenolic

Phenolics are thermoset composite materials that have the advantage of high strength and stiffness achieved through a reinforcement material. These composites have varying properties depending on the resin-reinforcement materials used.

T

1

4

257F

- Many grades available including XX, XXX, CE, C, L, and LE
- High tensile, compressive, flexural, and impact strength
- Suitable for electrical insulation applications

G10/FR4 Glass Epoxy

G-10-FR-4 is a thermosetting industrial laminate made up of a continuous filament glass cloth material with an epoxy resin binder. It has high strength, desirable electrical properties and tough chemical resistance, even under wet or humid conditions.

T

1

5

284F

- High resistance to chemicals, including in wet and humid environments
- Very high strength
- Desirable electrical properties

Olefin-Based

Industrial Plastics

HDPE

HDPE (high-density polyethylene) is a lightweight machinable thermoplastic with a high strength-to-density ratio and long term durability.

S

83

180F

- Extreme corrosion, chemical, and wear resistance
- Easy to machine and fabricate
- FDA and USDA compliant for food processing applications

LDPE

LDPE (low-density polyethylene) is characterized by its great chemical resistance and desirable electrical properties at a cost effective price point.

S

52

160F

- Cost Effective
- Desirable chemical and corrosion resistance
- High impact strength at low temperatures

Polypropylene

Polypropylene is a versatile, lightweight thermoplastic with high strength, chemical, moisture and corrosion resistance.

S

73

180F

- Easily vacuum formed, thermoformed, fabricated, hot air welded, and machined
- Copolymer provides outstanding toughness and performs well in extremely cold conditions
- Resists most acids, alkalis, and solvents

UHMW-PE

UHMW-PE (Ultra High Molecular Weight Polyethylene) is an outstanding choice for great abrasion, impact, and chemical resistance at a relatively low cost.

S

94

180F

- Easy to fabricate and machine
- Highly resistant to wear and abrasion
- Extremely low moisture absorption
- Low coefficient of friction

3

Austin, TX

(512) 386-7422

Birmingham, AL

(205) 620-9500

Boise, ID

(208) 322-4400

Des Moines, IA

(515) 276-5145

Los Angeles, CA

(562) 803-5599

Sacramento, CA

(916) 422-3110

Hayward, CA

(510) 483-4341

Seattle, WA

(253) 395-4885

4

Fluorocarbon-Based

Fluoropolymer Materials

ETFE

ETFE (ethylene tetrafluoroethylene) offers exceptional corrosion and chemical resistance, and mechanical strength over a wide temperature range. It features great electrical and thermal insulation.

F

78

302F

- Operates in environments from -300F to 300F
- Works well for chemical vessel lining applications and wire/cable insulation
- Extremely high purity

ECTFE

ECTFE (a copolymer of ethylene and chlorotrifluoroethylene) offers excellent resistance to abrasion, harsh chemicals, and permeation. For those applications exceeding the capabilities of PVDF, ECTFE can be evaluated before resorting to a fully fluorinated polymer.

F

108

300F

- Desirable resistance to abrasion, harsh chemicals, and permeation
- Easier to fabricate than most fluoropolymers
- Ideal for wire and cable insulation

PFA

PFA is a high performance fluoropolymer that exhibits similar characteristics to PTFE. It is melt-processible and performs extremely well in extreme heat and chemically corrosive environments.

F

98

500F

- Chemically inert to nearly all industrial chemicals and solvents
- ASTM D 3307 Type II
- USDA and FDA compliant CFR-177.1550 (excluding PFA 350)

PTFE – Virgin Molded Grade

PTFE is a soft fluoropolymer mechanical plastic with exceptional resistance to high temperatures, chemicals, corrosion, and stress cracking. Available in a variety of formulations including bearing grades.

F

106

500F

- Outstanding chemical resistance
- Extremely low coefficient of friction
- Excellent for Seal/gasket applications as well as bearing and wear properties
- Performs in high heat environments up to 500F

PTFE – Extruded Grade

Extruded PTFE retains nearly all mechanical properties of molded PTFE including exceptional resistance to high temperatures, chemicals, corrosion and stress cracking, at a more cost-effective price point.

F

105

500F

- Outstanding chemical resistance
- Extremely low coefficient of friction
- More cost effective versus molded PTFE

FEP

FEP is a relatively soft plastic with lower wear and creep resistance versus many other engineering plastics. Its advantage is being chemically inert with a low dielectric constant over a wide frequency range.

F

88

392F

- High stress cracking resistance
- Low coefficient of friction
- Desirable dielectric properties and heat resistance

Fluorosint® 500 PTFE

Fluorosint® 500 PTFE has nine times the resistance to deformation under load versus unfilled PTFE. It is 30% harder than virgin PTFE, and features better wear characteristics while maintaining low frictional properties.

F

78

500F

- Reliable performance in hostile chemical environments
- Ideal for high-pressure seals and wear parts
- Highly resistant to deformation under load

PCTFE

PCTFE features high compressive strength, low deformation under load, and stability within a wide thermal range. It is commonly used for cryogenic and chemical processing components, as well as laboratory instruments.

F

58

380F

- Wide temperature operating range of approximately -400F to 380F
- Very low gas permeation and outgassing
- High compressive strength with low deformation

PTFE – 25% Glass Blend

PTFE with the addition of glass fibers has very little effect on chemical and electrical properties while greatly adding to the mechanical properties of unfilled PTFE and significantly increasing wear resistance.

F

77

500F

- Higher mechanical properties versus unfilled PTFE
- High heat and chemical resistance
- Other blends available

PVDF

PVDF combines typical fluoropolymer properties, with the mechanical properties of more rigid thermoplastics.

F

48

300F

- Non-toxic, high purity, and high heat deflection temperature
- High UV and gamma radiation resistance
- Ideal for semi-conductor processing, chemical processing, and heat exchangers

High Performance

Engineering
Plastics

Torlon® 4301 PAI

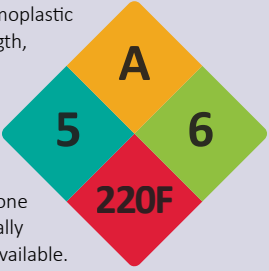
Torlon® 4301 exhibits excellent wear resistance in bearing grades and is able to endure harsh thermal, chemical, and stress conditions. It has superior resistance to elevated temperatures, capable of performing under severe stress conditions at continuous temperatures of up to 500°F.



- Exceptional toughness, stiffness, and strength
- Extreme heat temperature resistance
- Wear and creep resistant

Noryl® – EN 265

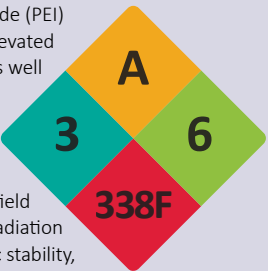
Noryl® is a strong thermoplastic with outstanding strength, stiffness, mechanical, thermal, and electrical properties. Low moisture absorption and low thermal expansion make Noryl one of the most dimensionally stable thermoplastics available.



- Excellent dimensional stability in a wide range of service temperatures
- High impact resistance and dielectric strength
- Excellent flammability rating

Ultem® 1000 PEI Polyetherimide

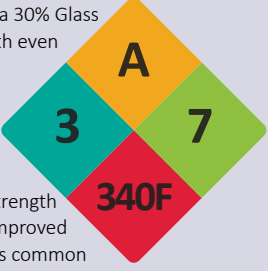
Ultem® polyetherimide (PEI) offers outstanding elevated thermal resistance as well as high strength, stiffness, rigidity and creep resistance. Ultem® is commonly used in the medical field due to its heat and radiation resistance, hydrolytic stability, and transparency.



- High tensile and dielectric strength
- Flame resistant even at extreme temperatures
- Excellent dimensional and hydrolytic stability

Ultem® PEI U2300 30% Glass Reinforced

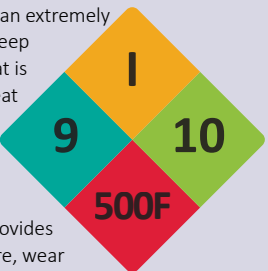
Ultem® PEI U2300 is a 30% Glass Reinforced grade, with even higher rigidity and dimensional stability versus PEI U1000 or Ultem® 1000. The glass reinforcement offers an increased strength to weight ratio and improved tensile strength. PEI is common for medical devices, instrumentation, and electrical insulators.



- 10% and 20% glass reinforced grades available
- More rigid than non-reinforced grades
- Resistant to chemical solutions & daily sanitizing

Vespel® Polyimide SP-1, SP-21, SP-22, SP-211, SP-3

Vespel® polyimide is an extremely high temperature, creep resistant material that is often used in high heat environments where thermoplastic materials would lose their mechanical properties. Vespel provides desirable temperature, wear and chemical resistance.



- Ultra low outgassing
- Extremely high wear and heat resistance
- Will not melt under nearly any operating conditions

PEEK – Virgin Grade

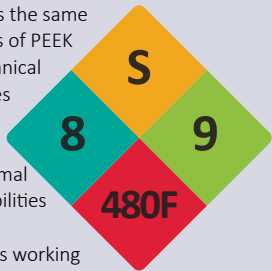
PEEK is a stiff thermoplastic material with exceptional chemical and fatigue resistance, and thermal stability. It is often used in applications where performance at extreme temperatures is necessary.



- Extreme chemical resistance with good mechanical properties
- Highly resistant to thermal degradation
- Excellent strength, stiffness, and dimensional stability

PEEK – Glass 30%

Glass filled PEEK offers the same exceptional properties of PEEK with enhanced mechanical and thermal properties over standard grades.



- Extremely high thermal and mechanical capabilities
- Very high continuous working temperature
- Very high heat deflection temperature

Torlon® 4203 PAI

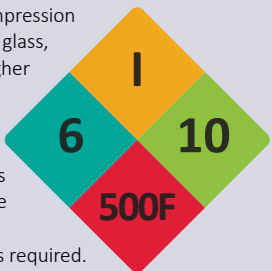
Torlon® 4203 extruded PAI offers impressive compressive strength and extremely high elongation at break. With great electrical insulation and exceptional impact strength, Torlon® 4203 is commonly used for electrical connectors and insulators.



- High dielectric strength
- Superior resistance at high temperatures
- Performs under severe stress conditions

Torlon® 5530 PAI – Glass 30%

Torlon® 5530 is a compression molded PAI with 30% glass, making it ideal for higher load structural or electronic applications. It is used for larger shapes and parts or when the greatest degree of dimensional control is required.



- High dimensional control
- Great insulation properties
- Ideal for higher load structural or electronic applications

Ertalyte® TX PET

Ertalyte® TX is an internally lubricated mechanical thermoplastic that provides enhanced wear and creep resistant properties versus nylon and acetal products with lower wear and friction versus unmodified polyesters.



- FDA, USDA and 3A Dairy compliance
- Desirable wear, friction, chemical, and creep resistance
- Reputable Delrin® AF substitute

PPS

PPS offers high mechanical performance, and excellent heat and chemical resistance, with service temperatures that range up to 338F. Excellent hardness, rigidity, dimensional stability, and creep resistance make PPS ideally suited for close tolerance machined components.



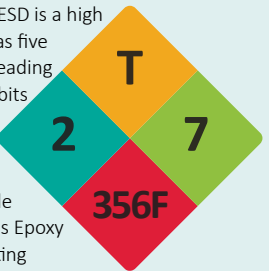
- Excellent strength and hardness with a high resistance to chemicals
- Machines to tight tolerances
- PEEK alternative for lower temperature applications

ESD Materials

Static
Controlled

Laminate Glass Epoxy ESD

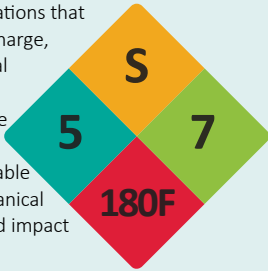
Laminate Glass Epoxy ESD is a high strength plastic that has five times the stiffness of leading thermoplastics. It exhibits excellent dimensional stability, eliminates cracking and chipping, and features a printable surface. Laminate Glass Epoxy ESD is ideal for protecting static-sensitive electronic applications like automated test equipment, assembly fixtures, solder pallets, carrier plates, enclosures, and work surfaces.



- Uniform thickness
- Cost-effective ESD material

Acetal ESD

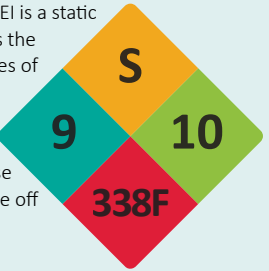
Ideal for use in applications that give off electrical discharge, static dissipative acetal offers good sliding behavior, low moisture absorption, low creep tendency, and a desirable combination of mechanical strength, stiffness, and impact strength.



- Accepted for clean room use in semiconductor applications
- High surface resistivity
- No carbon black

Semitron® ESD 410C

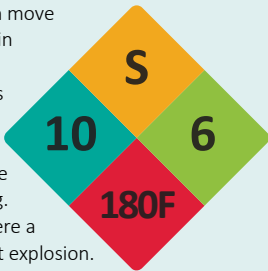
Semitron® ESD 410C PEI is a static dissipative PEI that has the same general properties of unfilled PEI but with additional static dissipative properties, ideal for use in applications that give off electrical discharge.



- Static dissipative properties do not rely on humidity or surface treatments to activate
- Ideal for environments where wear-resistance, chemical-resistance and the management of static electricity are required
- Very high dimensional stability

UHMW-PE ESD

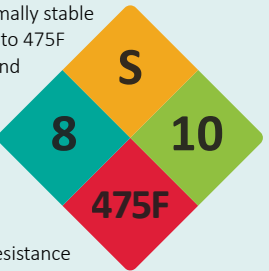
Anti-static UHMW can move products more safely in potentially volatile environments, such as munitions plants, grain handling facilities, and explosive assembly facilities (e.g. air-bag assembly) where a spark can cause a dust explosion. Anti-static UHMW protects products sensitive to build-up of electrical charges.



- Resists static buildup
- Extremely high abrasion resistance
- Outstanding impact strength, even at low temperatures

Semitron® ESD 480

Semitron® ESD is thermally stable at temperatures of up to 475F without degradation and offers high structural strength and stiffness combined with excellent dimensional stability.



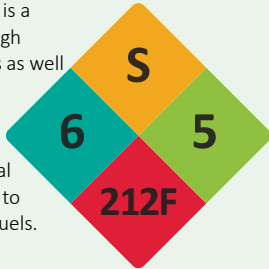
- Excellent chemical resistance
- Static dissipative throughout a wide temperature range
- Retains mechanical properties of PEEK

Medical

Medical Grade Plastics

Medical Grade Acetal

Medical grade Acetal is a thermoplastic with high strength and stiffness as well as good dimensional stability for precision machined parts. It features high chemical resistance, especially to alkalis, solvents and fuels.

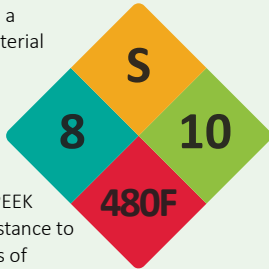


- Lot controlled and traceable
- Resin complies with FDA regulations 21 CFR 177.2470 and 21 CFR 178.3297 for colorants
- Resin meets the requirements of USP Class VI specifications



PEEK – Medical Grade

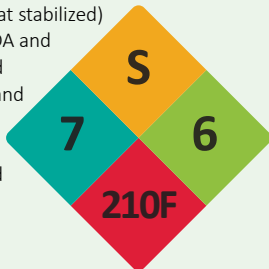
Medical grade PEEK is a high-performance material with an exceptional mechanical property profile that handles sustained temperatures above 212F. Medical grade PEEK exhibits excellent resistance to conventional methods of sterilization and was specially developed to meet the requirements for materials used in medical technology.



- Very good resistance to chemicals, radiation, and stress cracking.
- Tested according to ISO 10993-5 for 24 hour skin/tissue contact

Polypropylene – Heat Stabilized

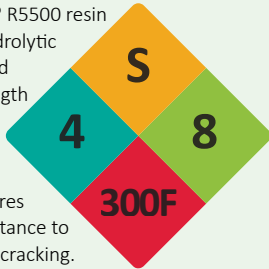
Polypropylene HS (heat stabilized) is produced from a FDA and USP Class VI approved homopolymer resin, and exhibits better heat and dimensional stability over standard polypropylene.



- Laser markable
- Lot controlled and traceable
- Low moisture absorption
- FDA compliant

Radel® R5500 – PPSU

Medical grade Radel® R5500 resin offers exceptional hydrolytic stability, toughnes and superior impact strength over a wide temperature range. Radel® offers high deflection temperatures and outstanding resistance to environmental stress cracking.

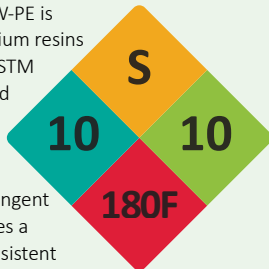


- Lot controlled and traceable
- Resin meets the requirements of USP Class VI and ISO 10993
- Superior dimensional stability



UHMW-PE Medical Grade

Medical grade UHMW-PE is produced from premium resins in accordance with ASTM specification F648 and International Standard ISO 5834-1 and ISO 5834-2for surgical implants. Stringent quality control ensures a consolidated and consistent fabricated form. Recommended sterilization techniques include EtO gas cold sterilization and limited gamma irradiation.



- Compliant for surgical implants
- Cost effective

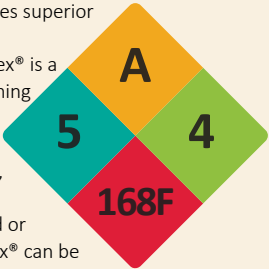
Thermoforming

Forming Grade Plastics



Kydex® T

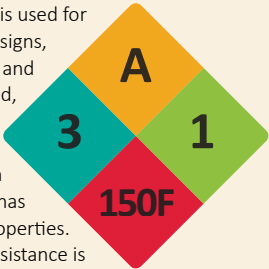
Kydex® plastic features superior formability when thermoforming. Kydex® is a versatile thermoforming material perfect for countless projects. Using standard tools, Kydex® sheet can be drilled, brake formed or punch pressed. Kydex® can be used for gun holsters, knife sheaths, prototyping, model making, as well as thermoformed machine housings, molds, and POP displays.



- Extremely rigid of thermoforming material
- Effective for pressure forming
- Meets 94 V-0 requirements

HIPS – High-Impact Polystyrene

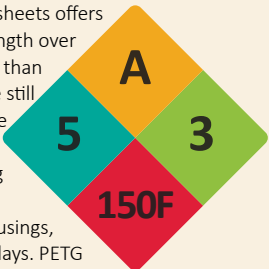
High impact styrene is used for models, prototypes, signs, displays, enclosures, and more. It can be drilled, threaded, sawed, sheared, punched, and machined. It can also be painted and has excellent forming properties. Its maximum heat resistance is 180F and FDA grades are available.



- Outstanding thermoforming characteristics
- Good machinability
- High impact strength

PETG

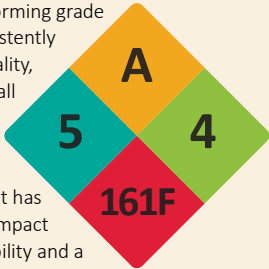
PETG thermoplastic sheets offers superior impact strength over acrylic and costs less than polycarbonate, while still being easy to machine and thermoform for applications including prototyping, model making, machine housings, molds, and POP displays. PETG can be cold formed without edge whitening and it does not need to be pre-dried to heat form.



- Superior impact strength
- Easy to thermoform
- Able to produce complex shapes

Boltaron® 4335

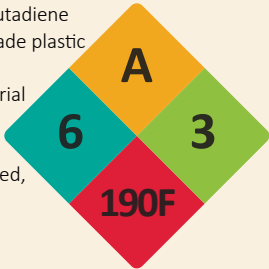
Boltaron® thermoforming grade 4335 features consistently uniform surface quality, and maintains its wall thickness during thermoforming even in deep draws and sharp corners. It has exceptionally high impact resistance for durability and a long service life.



- FAR 25.853 (a) and UL V-0 compliant
- Uniform high quality appearance
- Very high Izod impact rating of 18 ft-lb/in.

ABS – Forming Grade

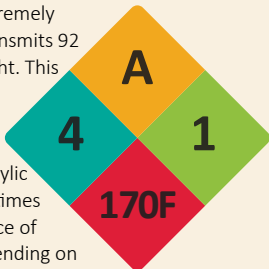
ABS (acrylonitrile butadiene styrene) forming grade plastic is a tough, rigid thermoplastic material with high impact strength. It is easily formed and machined, ideal for structural applications.



- Tough and rigid
- Easily machinable and fabricated
- Wide operating temperature range
- High impact strength, even at low temperatures

Acrylic

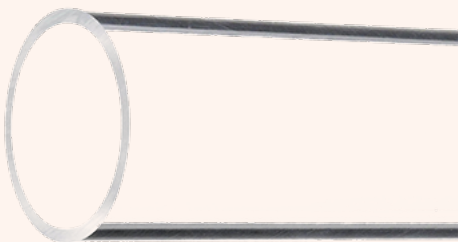
Acrylic plastic is extremely transparent and transmits 92 percent of white light. This is equal to the transparency of the finest optical glass. Impact resistant acrylic sheet has six to 17 times the impact resistance of ordinary glass, depending on the specific preparation.



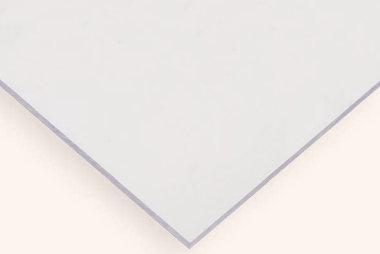
- Lighter and stronger than glass
- Highly transparent
- Easily formed and machined

Transparent & translucent plastics

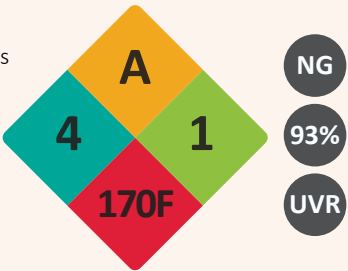
- NG Available non-glare grade
- 93% Maximum light transmission
- UVR UV-resistant



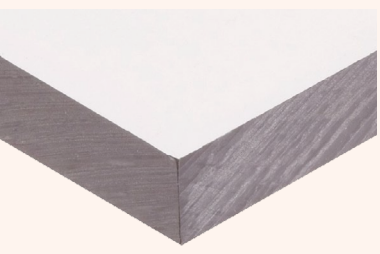
Acrylic



Acrylic is resistant to long-term sunlight exposure and weathering. It has excellent optical properties and a much higher impact resistance than glass. Acrylic has low water absorption, good electrical resistivity, and fair tensile strength. It can be routed, drilled, flame polished, and bent into many shapes, perfect for applications including glazing, windows, signage, POP, screens, transparent barriers, signage, and lighting.



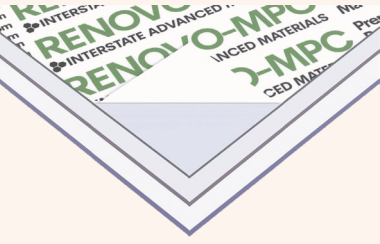
General Purpose Polycarbonate



Polycarbonate is a machinable, cost-effective, generally transparent thermoforming plastic. It's an extremely durable material, lighter than glass and nearly unbreakable. Stronger than acrylic, it has better light transmission than many types of glass. Polycarbonate is safe, shatterproof, lightweight, and available in transparent or translucent colors. Many optional specifications are available including UV resistant and abrasion resistant grades.



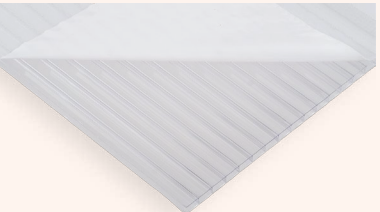
Renovo-MPC™ Polycarbonate



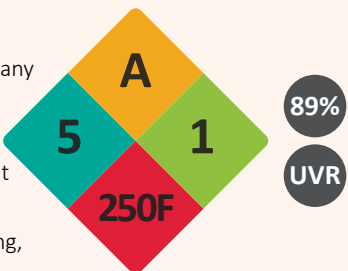
Renovo-MPC™ is a clear reclaimed post-consumer, industrial grade polycarbonate. It retains the properties of general purpose extruded polycarbonate, including its outstanding optical clarity, high light transmission, and low haze. Renovo-MPC™ is a closed loop sheet that is lightweight, shatter-resistant, and has a higher impact resistance than glass. Like general-purpose polycarbonate, this material may be thermoformed, sawed, routed, drilled, and is hot and cold bendable.



Polycarbonate Twinwall & Multiwall



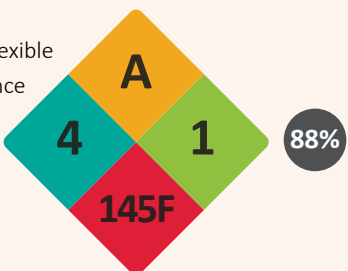
Twinwall and multiwall polycarbonate is the ideal glazing solution for many outdoor applications including roofing, hobby and commercial greenhouses, storm panels, and window replacement. Twinwall’s double paneled sheets serve to trap air, increasing insulation strength. It withstands UV rays, hail, and extreme weather and provides the best thermal insulation of any hot/cold aisle containment, greenhouse glazing, storm panel, or agricultural covering solution on the market.



PETG



PETG is durable, lightweight, cost-effective, and allows for simple and flexible fabricating, forming, and finishing. PETG features higher impact resistance than acrylic while remaining cost-effective. Widely used in point of purchase applications, PETG handles deep draws, complex die-cuts, and precise molded-in details without sacrificing its structural integrity.



AEROSPACE AVIONICS CABIN INTERIORS CONTROL SYSTEMS ELECTRICAL S.W.A.M.P.	ENVIRONMENTAL AIR POLLUTION CONTROL CLEAN ENERGY POWER SYSTEMS GRATINGS HAZARDOUS WASTE MANAGEMENT PARK WALKWAYS & SIGNAGE SURVEY EQUIPMENT & INSTRUMENTS WASTE MANAGEMENT EQUIPMENT WATER UTILITIES
AGRICULTURE GREENHOUSES IRRIGATION MULCHING SILAGE SOIL FUMIGATION TUNNELS	FLUID HANDLING CENTRIFUGAL PUMPS FLUID METERS POSITIVE DISPLACEMENT PUMPS PRESSURE REGULATORS TANKS & COLLECTORS WATER & WASTEWATER TREATMENT
ALTERNATIVE ENERGY ENERGY RECOVERY GEOTHERMAL SYSTEMS PHOTOVOLTAICS SOLAR CELLS WIND TURBINES	FOOD & BEVERAGE BREWING & DISTILLING GROCERY & FOOD RETAILERS PACKAGING & BOTTLING PROCESSING RESTAURANTS SEAFOOD HANDLING WINERIES
AUTOMOTIVE BODY PANELS CABLE INSULATION ELECTRIC VEHICLES ENGINE & POWERTRAIN FUEL SYSTEMS INTERIOR PARTS LIGHTING SUSPENSION	HEAVY EQUIPMENT CAPITAL EQUIPMENT CRANES EARTHMOVING LIFTING LOADERS, DOZERS, & FORKLIFTS TRANSPORTATION
BUILDING & CONSTRUCTION CABLE MANAGEMENT CEILING PANELS CLADDING FIRE SAFETY EQUIPMENT FLOORING GLAZING & DOORS INSULATION MEMBRANES PIPING ROOF COVERINGS SHUTTERING WALLS & LININGS	LIFE SCIENCES AGROTECHNOLOGY BIOCHEMISTRY & BIOENGINEERING BIOMEDICAL SYSTEMS FOOD SCIENCES MEDICAL EQUIPMENT PLANT SCIENCE
CHEMICAL BIOFUELS BIOREFINERIES BIOTECHNOLOGY CROP PROTECTION DISTILLATION SYSTEMS EXTRACTION REFINERY PROCESSES TANKS	LUMBER ENGINEERED WOOD MFG. PULP, PAPER, & PAPERBOARD MILLS RAIL TRANSPORTATION SAWMILLS WOOD PRESERVATION
ELECTRICAL CONSUMER ELECTRONICS DISTRIBUTION SYSTEMS ELECTRICAL INSULATION FAULT FINDING FUSE PROTECTION HOUSINGS & ENCLOSURES SOCKETS & SWITCHES	MARINE BOAT & SHIP COMPONENTS FISHING & ECOLOGY PANELS & GLAZING PORTS SHIPPING
	MATERIAL HANDLING AUTOMATIC GUIDED VEHICLES (AGV) BULK HANDLING EQUIPMENT CONVEYOR SYSTEMS HANDLING EQUIPMENT ROBOTIC DELIVERY SYSTEMS STORAGE & SILOS

Applications & Markets Served

MEDICAL DENTAL EQUIPMENT DIAGNOSTIC EQUIPMENT DIALYSIS UNITS DRUG DELIVERY SYSTEMS ORTHOPEDIC SIZING SURGICAL CARRIERS, CADDIES, & TRAYS SURGICAL INSTRUMENTS TRIAL IMPLANTS	SIGNAGE BILLBOARDS EXHIBITION & TRADE SHOW OUTDOOR SIGNAGE POINT OF PURCHASE
MINING EARTHMOVING & TRANSPORTATION EXCAVATION & MINING LIFTING LOADERS, DOZERS, FORKLIFTS, & CRANES MATERIAL HANDLING	SECURITY ALARM & SECURITY SYSTEMS BULLET RESISTANT GLAZING PRISON SECURITY SECURITY TRANSPORT
MRO MANUFACTURING COMPRESSORS, PUMPS, & VALVES INDUSTRIAL EQUIPMENT SAFETY EQUIPMENT	SEMICONDUCTOR ACCESS PANELS CHEMICAL PROCESS TANKS DATA CENTERS DRY TOOL ENCLOSURES ENCLOSURE WINDOWS ETCH TANKS FLOW CABINETS RINSE MODULES VALVE BOXES WAFER TRANSFER WET BENCH SYSTEMS
OIL & GAS EXPLORATION & PRODUCTION MARINE PIPELINE REFINERS SERVICE & SUPPLY TANKERS	TRANSPORTATION AEROSPACE & AIRCRAFT AUTOMOTIVE INFRASTRUCTURE MARINE RAIL TRANSPORT
PHARMACEUTICAL BIOTECHNOLOGY DRUG MANUFACTURING RESEARCH & DEVELOPMENT	WATER & WASTE WATER ANAEROBIC DIGESTION AGRICULTURAL WASTE BIOGAS FACILITIES MEMBRANE BIOREACTORS MUNICIPAL SEWAGE RECYCLING & DESTRUCTION SEPTAGE SLUDGE PROCESSING
RECREATION CASINOS, RESORTS, & SKI FACILITIES FITNESS & RECREATIONAL CENTERS GOLF COURSES & COUNTRY CLUBS PARKS, MARINAS, ZOOS, & MUSEUMS SPORTS ARENAS & RACETRACKS	



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