VANI INDUSTRIAL INNOVATIONS

Celanese

Empowering Indian Industry with Global Solutions

Vani Industrial Innovations is a trusted industrial distributor, supporting manufacturers, OEMs, and engineers across India with product expertise, responsive service, and reliability.

We deliver advanced materials that help industries move faster and work smarter. Our skilled team supports sectors like automotive, electrical, aerospace, consumer durables, and medical devices.

Beyond distribution, we partner with customers, offering end-to-end support from selection to technical assistance.

Vani 🤝 Celanese

A Partnership of Performance

As an authorized distributor of Celanese polymers, we combine global material science with local expertise.

Celanese polymers, trusted worldwide, power critical applications. Vani ensures their availability with technical support and strong supply chains.

Every Celanese component-gears, housings, connectors, safety parts-delivers innovation, consistency, and trust.

PA
(POLYAMIDE)

For outstanding resistance to high temperature, excellent surface quality, high dimensional stability, and high performance across environmental conditions.

Zytel® PA resin and Zytel® LCPA resin

We invented nylon more than 70 years ago. Today, we continue to refine and expand our Zytel® PA range of polyamides to deliver solutions to manufacturers around the globe and across a broad spectrum of end-use industries. Zytel® polyamide resins deliver high-performance benefits ranging from stiffness to heat resistance.

Product Benefits of Zytel® PA resin

- Stiffness and toughness
- Heat resistance
- Dimensional stability
- Ease of processing

Product Benefits of Zytel® LCPA resin

- High temperature resistance
- Resistance to chemicals
- Grades offering stiffness or flexibility
- Salt resistance
- Solutions based on renewably sourced precursor materials
- Low fuel and gas permeability

Available Grades

- Glass fiber reinforced solutions
- Grades offering flexibility (Zytel LCPA)
- Hydrolysis resistant
- Chemical resistance
- Heat stabilized

Processing

- Injection molding
- Extrusion

Zytel® LCPA RS
Zytel® LCPA RS grades perform equivalently to virgin, fossil standard.

Zytel® PA ECO-R Mass Balance
Zytel® PA ECO-R grades with mass balance are drop in place solutions; no requalification required.

Zytel® PA ECO-R Segregated
Zytel® PA ECO-R segregated grades offer a range of options to incorporate recycled content.

PPA
(SEMI-CRYSTALLINE POLYPHTHALAMIDE)

Zytel® HTN and Celanyl® PPA resins

Zytel® HTN PPA resin are a range of materials based on polyphthalamide semi-aromatic nylons. Even more than standard polyamide resins, the HTN range offers especially high strength and stiffness over a wide range of temperatures and exposure to chemicals and moisture.

Product Benefits of Zytel® HTN PPA resins

- Low effect of moisture
  - Excellent retention of properties
  - Good dimensional stability
- Good high temperature properties
- High melting point range, up to 315°C (600°F)
  - High glass transition temperatures, dry, 80°C (176°F) to 141°C (286°F)
  - Low coefficient of thermal expansion, reinforced grades
- Chemical resistance to: glycols, motor transmission and transformer oil

Stiffness
High strength

- Excellent creep resistance
- Broad temperature toleration
- Versatile and easy to process
- Fatigue-resistant

Available Grades

- Glass fiber reinforced
- Flame retardant
- Laser markable
- Laser weldable
- Non-halogenated flame retardant
- Hydrolysis resistant
- Heat stabilized
- Sustainable solutions available
- tribological optimized
- transparent
- glass fiber reinforced

Processing

- Injection molding
- Extrusion

PBT
(POLYBUTYLENE TEREPHTHALATE)

Delivers high strength, rigidity and toughness, low creep even at high temperatures, and resistance to a wide range of chemicals and solvents.

Celanex® PBT and Crastin® PBT

Celanex® PBT and Crastin® PBT are a series of thermoplastic polyester polymers and compounds which features excellent dimensional stability, low moisture absorption and powerful insulation resistance, along with very good chemical and weathering resistance.

Numerous grades of Celanex® PBT and Crastin® PBT hold regulatory approvals, including VDE listing or UL certification approvals for the electrical and electronic market, or for instance EU 10/2011 food contact. compliance and FDA approval for the food and cosmetics industry, and last-but-not-least biocompatibility according to USP 25 Class VI, ISO 10993 and DMF listing for medical markets. These features make PBT the material of choice for many sensitive or regulated applications.

Product Benefits of Celanex® PBT and Crastin® PBT

- Very hard, rigid and strong
- Good creep resistance
- High heat-distortion temperature, especially for glass fiber-reinforced grades
- Continuous use temperature up to 140°C
- Very good low-friction and wear-resistant properties
- High dimensional stability (low thermal expansion coefficient, low water absorption)
- Good electrical properties
- Good chemical resistance
- No environmental stress cracking
- Good weathering resistance
- Rapid crystallization and fast cycle time
- Paintable / printable

Available Grades

- Unreinforced / unfilled
- Glass fiber (GF) reinforced
- Glass bead (GB) filled
- Glass fiber + Mineral-filled (GF/Min)
- Carbon fiber reinforced (ICF)
- Glass fiber reinforced with high surface gloss
- Low warpage (LW)
- UV stabilized (UV / HL)
- Laser markable (LM)
- Hydrolysis (HR) and alkaline resistant (AR)
- Recycling (R) content
- Impact modified / toughened (T)
- Slip & Wear modified (SW)
- High flow (HF)
- Flame retardant (conventional FR)
- Flame retardant (halogen free: XFR ®)
- Food contact compliant (FC)
- Medical and Pharmaceutical Polymers (MT®)
- Appearance Polymers (MetaLX®)
- Laser transparent (LT)
- ECO-B Sustainable grade: up to 40% certified bio-content (from renewable feedstock waste that does not use or contain food or feed crops) via RedCert mass-balance approach. LCA report for PBT ECO-B shows ~45% CO2 reduction on polymer basis for our PBT ECO-B solutions
- ECO-R Sustainable grades: Recycled content min 25% for PBT/PET blends (average based on recipe). Recycle source PET for PBT/PET blends and Carbon fiber for ICF grades

Celanex® PBT ECO-B and Crastin® PBT ECO-B

Celanex® PBT and Crastin® PBT ECO-B grades are dropin place solutions; no product requalification required.

Celanex® PBT/PET ECO-R

Processing

- Injection molding
- Extrusion
- Melt blown
- Spun bond
- Fiber spinning
- Physical foaming
- Water and Gas Injection Technology (WIT/GIT)

PET
(POLYETHYLENE TEREPHTHALATE)

For outstanding physical properties and superior thermal and chemical resistance, with the ability to support high temperature exposure.

Rynite® PET

Preferred across a wide range of applications, particularly as a replacement for die-cast metals and thermosets. Rynite® Polyethylene Terephthalate (PET) helps make electrical devices, photovoltaic panels, switches and other critical energy components stronger and reliable.

PET ECO-R

Rynite® PET ECO-R Mass Balance and Rynite® PET ECO-R Segregated PCR resin grades perform equivalently to standard Rynite® PET.

Product Benefits of Rynite® PET

- Superior flow characteristic
- High strength
- Good impact resistance
- High-temperature tolerance
- Withstands a broad range of chemicals
- Dimensional stability,
- Durability and high-gloss finish

Available Grades

- Glass fiber reinforced
- Glass fiber & mineral reinforced
- Sustainable solutions

Processing

- Injection molding

PPS
(POLYPHENYLENE SULFIDE)

For high temperature stability, broad chemical resistance, stiffness, strength and creep resistance at elevated temperatures.

Fortron® PPS

Fortron® PPS is an ideal candidate for mechanically and thermally stress molded or precision machined parts. Its low proportion of ion contamination gives Fortron® PPS an advantage over other materials for electronic applications.

Product Benefits of Fortron® PPS

- Service temperatures up to +240°C
- Very good resistance to chemicals and solvents
- Very hard and rigid
- Very low moisture absorption
- Flame resistance (UL 94 V-0, some grades 5VA)
- Suitable for lead-free soldering
- Excellent creep resistance at elevated temperatures

Available Grades

- Glass fiber reinforced
- Mineral reinforced
- Flexible PPS
- Toughened grades
- Thermal shock resistant
- Fiber / filler modified
- Flame retardant (V-0 UL94B)
- ISO 10993 and USP Class VI compliant
- Drug (DMF 14844) and Device (MAF-1097) Master Files available
- European Directive 2002/72/EC compliant

Processing

- Injection molding
- Extrusion
- Blow molding

TPC
(THERMOPLASTIC COPOLYESTER ELASTOMER)

Thermoplastic copolyester elastomer, or TPC is a high-performance and high-temperature elastomer, with good chemical and abrasion resistance. It combines the flexibility of thermoset rubber with the strength and process ability of engineered plastics.

Hytrel® TPC

Hytrel® TPC thermoplastic elastomer is a plasticizer-free thermoplastic copolyester elastomer with outstanding flexibility, stable mechanical performance over a wide temperature range, and straightforward processing characteristics. This versatile material can flex in multiple directions, cycle after cycle, long after rubber would break. Its durability has made it an essential ingredient in applications that must endure a wide range of temperatures and tough conditions during years of service.

Hytrel® TPC ECO-B

Hytrel® ECO-B resin grades are drop in place solutions; no product requalification required.

Hytrel® TPC RS – segregated bio content

Hytrel® TPC RS grades are drop in place solutions; no product requalification required.

Product Benefits of Hytrel® TPC

- Flexibility and resilience over a wide temperature range
- Excellent flex fatigue resistance
- Resistant to tearing and flex cut growth
- Excellent creep resistance, elastic recovery
- Good abrasion and wear resistance
- Highly resistant to hydrocarbons & other fluids
- Excellent colorability and aesthetic properties
- Easy processing and total system costs reduction
- Easy to recycle and reuse

Available Grades

- Flame retardant
- UV stabilized
- Heat stabilized
- Suitability for food contact
- Special and premium control grades for medical application
- Foamable grades

Processing

- Blow molding
- Extrusion
- Injection molding
- Gas injection molding
- Rotomolding
- Thermoforming

LCP
(LIQUID CRYSTAL POLYMER)

For stable dimensions and high-temperature performance in thinwalled applications.

Vectra® & Zenite® LCP

Vectra® and Zenite® LCP are part of a family of halogen-free, high-performance liquid crystal polymers with exceptionally precise and stable dimensions. These highly crystalline, thermotropic (melt-orienting) thermoplastics are distinguished from other semi-crystalline plastics by their special molecular structure, which consists of rigid, rod-like macromolecules that form liquid crystal structures in the melt phase.

Vectra® and Zenite® LCP ECO-B

Vectra® and Zenite® LCP ECO-B grades are drop in place solutions; no product requalification required (availability planned for Q2 24).

Product Benefits of Vectra® & Zenite® LCP

- Continuous service temperatures up to 240°C
- Short-term service temperatures up to 340°C
- Very low melt viscosity
- Very low water absorption
- Very low heat of fusion allowing for short cycle times
- Very low coefficient of linear thermal expansion
- Very high tensile strength and elastic modulus in the flow direction
- Inherently flame-resistant (UL 94 V-0, some grades with 5 VA)
- Halogen free without additives
- Very good chemical and oxidation resistance
- FDA compliant (specific grades are BPA- and PTFE-free)

Available Grades

- Easy flow
- Glass fiber reinforced
- Carbon fiber reinforced
- Fiber/filler modified
- Electroplated
- Electrically shielded & conductive
- Flame retardant (V-0 UL94B
- ISO 10993 and USP Class VI compliant
- Drug (DMF 14844) and Device (MAF-1097) Master Files available
- European Directive 2002/72/EC compliant
- Tailored electrical properties like Dk and Df

Processing

- Injection molding
- Extrusion
- Co-extrusion
- Thermoforming

UHMW-PE

(Ultra-high molecular weight polyethylene)

For outstanding abrasion resistance, superior impact resistance, non-sticking and self-lubricating properties.

GUR® UHMW-PE

GUR® UHMW-PE is a linear polyethylene with a much higher molecular weight than standard PE grades, which offers high impact strength, excellent wear-resistant properties, high chemical resistance and a wide service temperature range.

GUR® UHMW-PE is used in industrial semifinished parts like sheets, rods, profiles (to be used as e.g sliding rails, liners for silos or trucks, bearings, ski soles), in medical applications, for high performance fibers, for microporous membranes (e.g. as battery separators), in porous applications (like filters, sound dampening or wicking devices) and also as functional additive for other materials and more.

GUR® UHMW-PE has excellent mechanical characteristics, even in cryogenic conditions. GUR® UHMW-PE standard and premium grades meet the requirements of health organizations, such as the U.S. Food and Drug Administration (FDA) and European Union regulation (EC) No. 1935/2004 regarding food contact materials.

GUR® UHMW-PE ECO-B

GUR® UHMW-PE ECO-B grades are drop in place solutions; no product requalification required.

Product Benefits of GUR® UHMW-PE

- Exceptionally high impact strength
- High energy absorption capacity at high stress rate
- Excellent low-friction and wear properties
- Very high chemical resistance to acids, alkalis and all other chemicals except for (strong) oxidizing agents
- Highly resistant to environmental stress cracking
- Wide service temperature range from -269°C to +80°C

Available Grades

- Very broad range of products in terms of particle size and molecular weight
- Specialized grades for different applications and processing technologies (e.g. micro-powder as additive for rubber and thermoplastics)
- ECO-B Sustainable grades: Up to >99.9% certified Bio-content via ISCC Plus mass-balance

Processing

- Compression molding
- Ram extrusion
- Screw extrusion and injection molding
- Pressureless sintering
- Gel spinning (fibers)
- Gel extrusion of membranes

POM
(POLYOXYMETHYLENE)

For outstanding wear resistance, long-term fatigue resistance, toughness and creep resistance with excellent resistance to moisture, solvents and strong alkalis.

Hostaform® & Celcon® POM

POM – also known as acetal or polyacetal – is a highly crystalline, high-performance engineering polymer that displays a broad range of properties, particularly its low coefficient of friction, excellent wear resistance, high modulus and resistance to many solvents and automotive fuels. Basic mechanical properties of acetal copolymers include high strength and stiffness coupled with good impact strength.

Low moisture absorption results in excellent dimensional stability and makes Hostaform® & Celcon® POM an excellent candidate for parts that must exhibit tight tolerances in moist environments.

As a leading acetal copolymer manufacturer, Celanese provides a variety of POM grades that span a wide array of applications & industries, due to their high-performance thresholds.

Hostaform® POM ECO-B and Celcon® POM ECO-B

offer a bio-circular solution with a reduction in carbon dioxide emission without sacrificing inherent characteristics of the material. Hostaform® POM and Celcon® POM grades are drop-in place solutions; no product requalification required.

POM ECO-C

POM-ECO C products manufactured from captured CO2 emissions converted into methanol.

Product Benefits of Hostaform® & Celcon® POM

- Good toughness (to -40°C)
- Very hard and rigid
- Easy colorization
- Good heat distortion temperature (to 100°C)
- Very good slip/wear properties
- Excellent chemical resistance to fuels, solvents, and strong alkalis
- Excellent resilience
- Low moisture absorption
- Resistant to stress cracking

Available Grades

- Reinforced grades for improved heat distortion temperature and stiffness
- High-impact grades with step-change improvement in energy absorption
- Grades with improved media resistance
- Conductive grades to dissipate or conduct electrical charges
- Medical and pharmaceutical compliant grades where stringent requirements are enforced
- Low emission grades for automotive interior applications
- Appearance effects, laser marking, low gloss and metallic effect product
- Improved friction and wear grades
- ECO-B Sustainable grades: up to 97% bio-content (from renewable feedstock waste that does not use or contain food or feed crops) via ISCC+ Certified mass-balance approach. LCA report for POM ECO-B shows ~50% CO2 reduction on polymer basis for our POM ECO-B solutions

Processing

- Injection molding
- Extrusion
- Rotational molding
- Blow molding

IMPROVED CRYSTALLIZATION EVOLUTION POLYMERS

Fortron® PPS ICE

Fortron® PPS ICE polymers have material properties that are equivalent to or better than standard injection molding grades and significantly improve processing characteristics.

Fortron® PPS ICE grades can help customers stay competitive by reducing cycle times and overall production costs, as well as improve flatness and enable easier demolding.

Product Benefits of Fortron® PPS ICE

- Reduced molding cycle times
- Increased production cost savings
- Increased operating capacity
- Improved demolding of parts resulting in superior durability
- Full crystallization at lower temperatures with cold injection units

Processing

- Injection molding

FLEXIBLE PPS AND TOUGHENED GRADES

Fortron® PPS Flex and and Fortron® PPS FX

Fortron® PPS Flex are new grades with a unique combination of flexibility while maintaining excellent high temperature, permeation and chemical resistance. Toughened grades like Fortron® PPS Flex provide improved impact properties over standard grades, while maintaining chemical resistance and temperature performance

These new grades could be considered when the application temperature challenges other flexible polymers like PE, Polyamides, and PVDF or when the application calls for thermal shock resistance, or less stiffness than standard filled PPS products.

Product Benefits of Fortron® PPS Flex

- Continuous use temperature range is -40°C up till 165°C/180°C
- Broad chemical resistance
- Higher Flexibility (60% lower modulus)
- Increase in elongation
- Improved impact strength

Product Properties of Fortron® PPS FX

- Good heat stability up to 220°C
- Improved impact properties
- Higher viscosity

MEDICAL: BRINGING SCIENCE TO LIFE

Improve patient care with cutting-edge medical and pharmaceutical solutions and expertise, delivering next-generation design flexibility for your medical devices and pharmaceutical programs. Celanese designs solutions to help you launch innovative devices and therapies that improve patient care. We invest in cutting-edge medical and pharmaceutical materials and expertise to ensure next-generation design flexibility. Our cross-functional customer project teams, including in-house technical experts, zero in on the unique needs of your project and design the ideal, bespoke package of service, product and support, helping accelerate your project timeline.

	Sustained Drug Delivery	Injection Devices	Inhalation Devices	Patient Monitoring	Medical Tubing	Implantable Medical Devices	Surgical Tools	Medical Packaging	Laboratory and Diagnosticequipment
Vectra® MT® LCP Design more compact, intricate components for connected wearable devices with Vectra MT LCP. Exceptional flow in thin-wall molding enables smaller parts and frees up internal space, enabling integration of electronic functionality into structural components.	●								
Hostaform® MT® POM (or ECO-B) Hostaform MT POM is a thermally stable polymer with high chemical resistance, high hardness and rigidity, excellent impact resistance, and good sliding properties. Hostaform® MT® SlideX® POM is a tribologically modified copolymer for quiet, smooth sliding medical parts (including POM).		●	●	●					
Celanex® MT® PBT and Crastin® PBT Celanese PBT materials demonstrate ideal sliding and wear behavior with high-dimensional stability and good chemical resistance to polar and non-polar solvents. Available in made-to-order colors in with technical support from the Celanese Color & Appearance Solutions Center.		●	●	●			●	●	●
Fortron ® MT® PPS High operating temperature, sterilizability and static and dynamic mechanical properties make Fortron MT PPS a leading candidate for metal replacement in surgical instruments and other medical equipment. PPS also provides high thermal stability; excellent chemical resistance; and high stiffness, strength and creep resistance			●				●	●	●
Zytel® HTN PPA Zytel® High-Temperature Nylon (HTN) polyphthalamide solutions offer especially high performance for demanding applications, helping to reduce weight, improve strength, enhance durability, increase thermal performance and simplify processing.		●	●				●		●
Zytel® PA66 and PA6 Zytel® LCPA Zytel polyamide resins deliver high-performance benefits ranging from stiffness to heat resistance.		●					●	●	
Hytrel® TPC Hytrel TPC is super-resilient, providing excellent flex fatigue resistance and spring-like properties, and can be used over a wide range of temperatures while still retaining its flexibility and mechanical properties. It enables parts and products that combine the best features of both high performance rubbers and flexible plastic materials.		●			●		●	●	●
GUR® UHMW-PE GUR UHMW-PE provides outstanding abrasion resistance and superior impact resistance with non-sticking and self-lubricating properties. It can be sterilized and cross-linked by gamma, e-beam and even x-ray, and can be sterilized by gamma, e-beam, gas plasma or EtO.						●			●

ELECTRICAL & ELECTRONICS: ENABLING NEXT GENERATION CONNECTIVITY

Advanced network connectivity is paving the way for communication infrastructure, consumer electronics and emerging IOT innovations and so on, and the demands for faster high-speed connectivity, increased safety and reliability, design flexibility, and sustainability is ever increasing. As these demands increase, so does the demand for newer grades of engineering plastics that can perform up to the demands of balanced dielectric constant (Dk) and dissipation factor (Df), EMI shielding, thermal management as well as miniaturization capabilities. In response to these critical industry demands, Celanese has developed new grades of high-performance material solutions that have been uniquely engineered to convert your great idea into reality.

	5G Connectivity	Consumer Electronics	EV Charging Infrastructure	Connectors	Electrical Components	Wire & Cable
Vectra® and Zenite® LCP Vectra® and Zenite® LCP products offer a new high- performance, tailored Dk/Df Zenite® LCP portfolio, specifically designed to achieve the most reliable network connections. More importantly, Celanese can engineer the product to have the Dk and Df value that you need to achieve reliable, vast and highspeed network connections. Vectra® and Zenite® LCP meet a wide range of applications, combining greater signal integrity and high-speed server connections for improved data transfers.	●	●	●	●	●	
Fortron® PPS Fortron® PPS with low moisture uptake minimizes Dk/Df shift under harsh conditions and results in minimal signal loss. It also offers good platability while withstanding SMT 265° C.	●	●	●		●	
Celanex® and Crastin® PBT Low Dk Celanex® PBT solutions provide good metal adhesion and properties for mobile device' s frames. Crastin® PBT grades are offered to meet the most stringent Electrical Insulation Standards (EIS) and enables Celanese to offer the industry's largest portfolio of materials pre-approved by Underwriters Laboratories (UL) and recognized to International Electrotechnical Commission (IEC) standards.	●	●	●	●	●	
Rynite® PET With their lightweight, glass-reinforced composition, dimensional stability, durability and high-gloss finish, Rynite® helps make electrical devices, photovoltaic panels, switches and other critical energy components stronger and reliable.			●		●	
Hytrel® TPC Hytrel® TPC offers outstanding flexibility, stable mechanical performance over a wide temperature range and straightforward processing characteristics.		●	●	●	●	●

ELECTRIC VEHICLES: DRIVING ELECTRIFIED MOBILITY

Leading OEMs and tiers are developing components in electric powertrain with new requirements to enhance safety, reduce costs and extend range and lifetime. Celanese supports these demands by offering a broad portfolio to address these challenges. Customers can benefit from translating our knowledge from the E&E industry to develop new solutions for future mobility. Our battery separator materials and flame-retardant grades for battery components enhance safety, and our thermally conductive grades for sensors and thermal management parts extend range and lifetime.

	Battery Cell	Battery System	High Voltage Connectors	Thermal Management	Traction E-Motors	Power Electronics	Fuel Cell	Charging Technology
GUR® UHMW-PE Consistent product quality leads to high quality membranes and improved productivity to enable faster charging	●							
Celanex® PBT PBT offers excellent electric insulating performance, combined with good temperature resistance and flame retardancy for HV connectors and power electronics		●	●				●	
Hostaform® POM Acetal copolymer possesses a linear structure with a highly crystalline quality that provides a variety of characteristics				●				●
Fortron® PPS Meet the needs for extended thermal mangement with PPS and flex PPS for resistance to cooling agents and lifetime performance in high heat applications	●		●	●	●	●	●	
Zytel® PA For battery safety PA grades offer excellent electrical insulation properties in combination with high flame retardancy and thermal shock resistance		●	●					
Zytel® PA PA compounds can address multiple thermal, mechanical, electrical, and tribological requirements in electric vehicles		●		●		●		●
Zytel® HTN Even more than standard polyamide resins, the HTN range of PPA resin offers especially high strength and stiffness over a wide range of temperatures, chemicals and moisture exposure.		●	●	●	●	●	●	●

CLEAN ENERGY: SHAPING THE TRANSFORMATION OF THE ENERGY INDUSTRY

Celanese is committed to enabling market leaders to optimize their Green Energy opportunities with a dedicated portfolio of polymers that enable technology development. Our energy polymers feature many favorable attributes for the modern clean energy industry such as exceptional mechanical and electrical performance, high abrasion resistance, corrosion and low moisture absorption resistance, high thermal and dimensional stability and low weight features.

	Electrolyze	Energy Storage	Solar	Wind	Water
Vectra® and Zenite® LCP Vectra® and Zenite® LCP are part of a family of halogen-free, high-performance liquid crystal polymers with exceptionally stable dimensions.		●			
Fortron ® PPS Fortron® PPS delivers excellent chemical resistance, low ion leaching and very good hydrolysis resistance while it is inherently flame retardant	●	●			●
Zytel® PA and Zytel® LCPA Zytel® polyamide resins deliver high-performance properties ranging from stiffness to heat resistance.		●	●		
Frianyl® and Zytel® PPA Frianyl® and Zytel® PPA offer a very good balance in mechanical properties at elevated temperatures, good dimensional stability, excellent creep resistance, and resistance to chemicals and hydrolysis. Frianyl® offers flame-retardant grades for all colors.		●	●		
Celanex® and Crastin® PBT Delivers excellent electrical properties while having a very well balanced mix of mechanical properties even at high temperatures. In addition it has good resistance to a wide range of chemicals and solvents.		●	●	●	●
Rynite® PET PET helps make photovoltaic panels, switches and other critical energy components stronger and more reliable.			●		●
Hytrel® TPC Hytrel® TPC offers outstanding flexibility, stable mechanical performance over a wide temperature range and is easy to process.			●	●	●
GUR® UHMW-PE GUR® UHMW-PE provides outstanding purity and gelation performance, resulting in high-quality membranes that boast minimal risk of failure. Additionally, it delivers exceptional mechanical strength and permeability.		●	●		

Material Across industries

Celanese's high-performance engineering resins offer superior performance in characteristics, including resistance to fatigue, creep, friction and wear, and deliver good mechanical properties such as stiffness and strength. Our portfolio provides cutting-edge material solutions across global industries. Celanese is a world leader in materials like acetal copolymers, liquid crystal polymers, long fiber reinforced thermoplastics and ultrahigh molecular weight polyethylene. Focused application development and technical services make the company a main business resource for customers in key industries throughout the Americas, Europe and the Asia-Pacific region.

		Aerospace	Automotive and Transportation	Building and Construction	Consumer Goods	Electrical and Electronics	Energy	Industrial and Manufacturing	Medical and Pharma	Oil, Gas & Mining	Packaging	Personal Care and Cosmetics	Telecom
SEMI-CRYSTALLINE	POM	●	●	●	●	●	●	●	●			●	●
	PET		●		●	●		●			●	●	
	PBT		●		●	●			●				●
	LCP	●	●		●	●	●	●	●				●
	PA		●	●	●	●	●	●					●
	PPA		●		●	●	●	●		●			●
	PPS	●	●	●	●	●	●	●					
	UHMW-PE		●			●		●	●	●	●		
THERMOPLASTIC ELASTOMER	TPC		●		●	●	●	●	●			●	●

VANI INDUSTRIAL INNOVATIONS

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