AURORA Material Solutions™

PEOPLE. PARTNERS. POSSIBILITIES.

www.auroramaterialsolutions.com

Engineered Thermoplastic Solutions

Quality & Consistency
in Engineered Thermoplastic Compounds

AURORA MATERIAL SOLUTIONS' COMPANIES are known for manufacturing the highest quality advanced polymers for variety of applications. Our state-of-the-art facilities are focused on safety, quality and automation that provides the highest precision formulations and processing, in both powder and pellet forms.

Designed to remove all non-value-added steps in manufacturing operations, our facilities optimize best practices and have the most current technologies. As a result, we have set the benchmark on product quality and lot-to-lot consistency in the industry.

Unlike many other compounders, Aurora Material Solutions offers one of the industry's largest product portfolios, including premium pellet capstocks, rigid PVC and flexible PVC, custom TPO, TPE, CPVC, CPE alloys, TPEs, low-smoke zero-halogen compounds, SBS & SEBS, RPVC cellular foam and purge compounds.

Aurora Material Solutions merged with Enviroplas, launching our engineered thermoplastic compounds business segment. We now offer customers an even larger product portfolio that includes ABS, ASA, MABS, PBT, PC, PC/ABS Alloys, PC/ASA Alloys, PC/PBT Alloys, PC/PET Alloys, PEI and TPU composites. It also allows broadens our reach into the specialty automotive, electronics/electrical, industrial, U.S. military, heavy trucks, and aerospace markets, all while building on a combined commitment to superior quality and service.

No matter what your needs – large and small custom orders with toll manufacturing or custom formulations – you can trust Aurora Material Solutions to handle any plastic compounding project for you, regardless of the scope or volume.

Aurora Material Solutions is dedicated to your satisfaction.

Working with us offers you a combination of benefits that is unmatched in the industry:

- An unparalleled lead time
- Industry leading tolerances on manufacturing processes
- Dedicated customer silos, with all inventory controlled through automation
- Product samples and test runs customized to your equipment and formulations
- Complete customer support — We do not produce downstream products or compete with its customers
- Our manufacturing plants' quality management systems are certified to ISO 9001:2015. ISO Certificates can be located at: **https://auroramaterialsolutions.com/company/aurora-plastics-pvc-compound-facilities/.**

A Diverse Product Portfolio

OUR PORTFOLIO offers a wide range of engineered thermoplastic compounds designed to meet the demanding needs of many applications.

AURORA GUARD™

ABS

ABS (acrylonitrile butadiene styrene): .

combines the strength and rigidity of the acrylonitrile and styrene polymers with the toughness of the polybutadiene rubber. These grades exhibit recyclable and environmental-friendly properties. They are ultraviolet (UV) resistant, flame retardant, and available in a wide range of viscosities. These ABS compounds belong to our AuroraGuard™ product line, known for providing high-heat properties.

AURORA SHIELD™

ASA

ASA (acrylonitrile styrene acrylic):

an amorphous resin designed to provide outstanding weather resistance. Similar to ABS in mechanical properties, ASA provides excellent ultraviolet (UV), water whitening and stress crack resistance. These grades exhibit low heat build-up, good flow, good aesthetics, impact strength, toughness, flame retardancy, dark color weatherability and a wide range of viscosities. This series also has recyclable and environmental-friendly products. It can be processed using compounding. ASA compounds are part of the AuroraShield™ family, ideal for outdoor applications.

A Diverse Product Portfolio

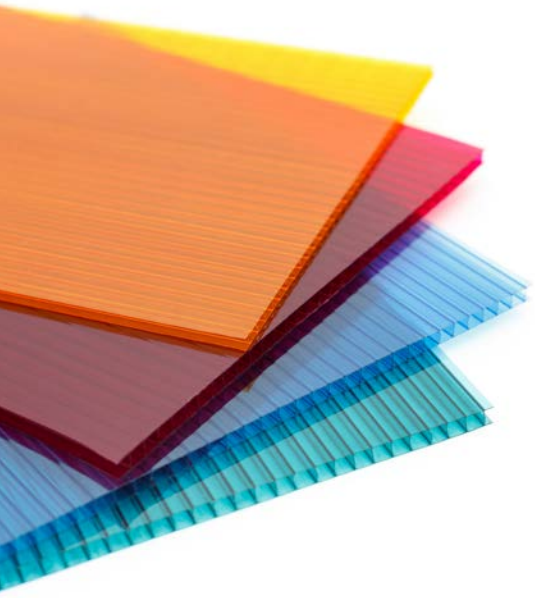
WE OFFER CUSTOMERS an even larger product portfolio that includes ABS, ASA, MABS, PBT, PC, PC/ABS Alloys, PC/ASA Alloys, PC/PBT Alloys, PC/PET Alloys, PEI and TPU composites.

AURORA GUARD™

MABS

MABS (methacrylate-acrylonitrile-butadiene-styrene):

often known as clear ABS, MABS can outperform polystyrene, SAN, and PMMA for impact resistance and has similar heat distortion properties. Polycarbonate can outperform clear ABS for both impact resistance and high-temperature properties as well. Clear ABS scores well for stress-crack resistance and processability, with good melt flow characteristics. Our clear ABS polymers fall into our AuroraGuard™ product family.



AURORA GUARD™

PC

PC (polycarbonate):

amorphous, thermoplastics that possess outstanding impact strength, excellent colorability, and superior heat resistance. They exhibit good electrical and thermal properties, low-temperature toughness, and superior dimensional stability. They can be provided unfilled or filled with specialized fillers, mineral or fiberglass reinforcement. PC compounds are available in flame-retardant grades (both non-halogenated and brominated), a wide range of melt viscosities, and can be offered with recyclable PC content and ultraviolet (UV) stabilized grades for outdoor weatherable applications. Part of the AuroraGuard™ family of products, our PC compounds are known for high performance in demanding applications.

A Diverse Product Portfolio

AURORA GUARD™

PC/ABS Alloys

PC/ABS Alloys (polycarbonate/acrylonitrile butadiene styrene):

the result of alloying these two amorphous thermoplastics takes advantage of the polycarbonate's toughness and the ease of processing ABS. PC/ABS provides impact strength, heat resistance, colorability, very good aesthetics, and dimensional stability. They can be provided unfilled or filled with specialized fillers, mineral or fiberglass reinforcement, and are available in flame-retardant grades and in a recyclable grade series. PC/ABS compounds are part of our AuroraGuard™ product line.

AURORA SHIELD™

PC/ASA Alloys

PC/ASA (polycarbonate/acrylonitrile styrene acrylic):

the result of alloying these two amorphous thermoplastics takes advantage of the polycarbonate's toughness and the UV and moisture resistance of the terpolymer ASA. Our PC/ASA compounds offer impact strength, heat resistance, colorability, very good aesthetics, and excellent weatherability. They can be provided unfilled or filled with specialized fillers, mineral or fiberglass reinforcement. They are part of the AuroraShield™ family of products.

AURORA TEC™

PC/PET

PC/PET Alloys (polycarbonate/polyethylene terephthalate):

have a property profile that includes high toughness, good chemical resistance, reduced susceptibility to stress cracking, great paintability and low moisture uptake. They are part of our AuroraTec™ family of products.

A Diverse Product Portfolio

AURORA TEC™

PC/PBT Alloys

PC/PBT (polycarbonate/polybutylene terephthalate):

alloys of amorphous polycarbonate and the semi-crystalline polybutylene terephthalate resin, these compounds offer good chemical resistance, great impact and heat resistance, as well as outstanding aesthetic and processability characteristics. Part of our AuroraTec™ family, they can be impact modified and are available in in flame-retardant grades, glass filled grades, and UV-stabilized grades for outdoor weatherable applications.

AURORA GUARD™

PEI

PEI (polyetherimide) compounds:

inherently flame resistant with a high resistance to solvents, these compounds provide high mechanical property performance in continuous use environments to 340°F (170°C). Their toughness and rigidity can be further enhanced with fiberglass reinforcement. They fall within the AuroraGuard™ product line.

AURORA TEC™

TPU Composites

TPU Composites (thermoplastic polyurethane):

are fiberglass-reinforced at varying levels, combining outstanding mechanical stiffness and strength with significantly better ductility and flexibility. Part of our AuroraTec™ family of products, our TPU composites provide a better aesthetic appearance when compared to other reinforced engineered thermoplastics such as reinforced polycarbonate, polycarbonate alloys, or polymers such as PC or PBT.

State-of-the-Art Facilities

Aurora Material Solutions has polymer compounding facilities in the U.S., located in Streetsboro, Ohio; Welcome, North Carolina; Lunenburg, Massachusetts; Pasadena, Texas; Evansville, Indiana; and Marieville, Quebec, Canada.

Designed to remove all non-value-added steps in the manufacturing operations, our facilities optimize best practices and have the most current technologies. As a result, we have set the benchmark on product quality and lot-to-lot consistency in the industry.

- Industry leading tolerances on manufacturing processes
- Only prime raw materials are used in production
- Dedicated silos, tote bins and all inventory is controlled through automation
- Rheology, color and powder/pellet properties are measured several times during production
- In-house R&D laboratory including a complete analytical equipment portfolio
- Technical team is experienced, offering cutting edge technology, and providing field proven and laboratory verified compounds


Streetsboro, Ohio


Welcome, North Carolina


Marieville, Québec


Lunenburg, Massachusetts


Pasadena, Texas


Evansville, Indiana

To locate your local Aurora Material Solutions representative go to

www.auroramaterialsolutions.com/locate-sales-representative

Our plants' quality management systems are certified to ISO 9001:2015.

We continuously strive to lead the industry in quality products you can trust. For more information on products and services from Aurora Material Solutions, call us today at **330-422-0700** or visit us at **www.auroramaterialsolutions.com**.

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