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Tailored Material Solutions for Tough Agricultural Environments





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Nothing tests the durability of agricultural materials quite like life in the field.

It's not just weather or workload exposure – the equipment and parts you manufacturer need to stand up to environmental, chemical and impact hazards and use cases that are like no other industry.

At Aurora Material Solutions, our wide array of material solutions is just the start of the options available to your design teams. Our industrial materials team can also dial in exactly what you need for the performance requirements you're after. Our compound customization capabilities – combined with our experience working with the agriculture industry's leading OEMs – can get your product to the finish line faster and more efficiently.

When you need your equipment to overcome specific challenges, get materials engineered with Agriculture DNA. **Partner with Aurora Material Solutions, and get exactly what you need.**





Our products are designed for numerous applications, including:



PRECISION AGRICULTURE

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FARMING EQUIPMENT AND MACHINERY

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GROWING SPACES, HYDROPONICS AND IRRIGATION

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ANIMAL HUSBANDRY

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Precision Agriculture

The future of farming is digital – with GPS domes on tractors and electronic sensors across a variety of equipment. Our PC and PC alloys are proven to deliver exceptional impact resistance, dimensional stability, and weather durability for consistent antenna alignment and signal integrity.



APPLICATIONS

› GPS Domes › Sensor Housing › Electronic Enclosures

GRADE	MATERIAL	DESCRIPTION
AuroraGuard™ 122**	FR PC	UV stabilized and impact modified flame retardant polycarbonate. Available in injection and extrusion molding grades. UL 94 flame rated with UL 746C f1 outdoor weatherability and UL 746B elevated RTI (relative thermal index) ratings. Ideal for applications where strength, flame retardancy, and heat resistance are required.
AuroraShield™ ENV31**	ASA	Similar to ABS in ease of processability and flow, acrylonitrile styrene acrylate combines impact resistance with inherent UV stability, making it an ideal choice for outdoor parts that require durability, weather resistance, and long-lasting appearance. Available in injection and extrusion molding grades.
AuroraShield™ ENV32**	PC/ASA	When your project demands both strength and long-lasting outdoor performance, polycarbonate/acrylonitrile styrene acrylate is the material of choice. Engineered for durability, it combines the toughness and strength of PC with the weather resistance of ASA, ensuring reliable performance in sun-exposed environments. Offers improved strength, outdoor reliability, color retention, and surface durability compared to PC or ASA alone. Available in injection and extrusion molding grades.
AuroraTec™ ENV39**	PC/PBT	UV stabilized and impact modified polycarbonate/polybutylene terephthalate. Compared to PC/ASA, PC/PBT offers similar durability in outdoor environments but offers improved resistance to chemicals. Recommended when both weatherability and chemical resistance are required. Available in injection and extrusion molding grades.
AuroraTec™ 393**	FR PC/PBT	UV stabilized and impact modified flame retardant polycarbonate/polybutylene terephthalate. UL 94 flame rated with UL 746C f1 outdoor weatherability ratings. Offers the chemical resistance and durability of standard PC/PBT with enhanced flame retardancy where required.
AuroraGuard™ 084-7	FR 15% Glass Reinforced PBT Black	Fiberglass reinforced flame retardant polybutylene terephthalate with UL 94 flame ratings. Recommended for injection molding applications requiring high chemical resistance with strength, dimensional stability, and flame retardancy.
AuroraTec™ ENV36**	PC/PET	UV stabilized and impact modified polycarbonate/polyethylene terephthalate. Similar to PC/PBT, PC/PET offers chemical resistance but with higher heat resistance and reduced warpage and molding shrinkage. Recommended for applications requiring chemical resistance combined with heat resistance. Available in injection and extrusion molding grades.
AuroraGuard™ 6IM20UW	PA 6	UV stabilized and impact modified weather resistant Nylon 6. Recommended for injection molding applications requiring a combination of strength, flexibility, and resistance to wear.
AuroraGuard™ GEP F5PC10GF	FR 10% Glass Reinforced PC Black	Fiberglass reinforced flame retardant polycarbonate delivers superior mechanical strength and durability with improved dimensional stability, making it ideal for demanding applications. Certified with a UL Yellow Card, the material meets stringent flammability standards, including UL 94 5VA at 3 mm and UL 94 V-0, ensuring reliable performance in high-safety environments. In addition to its enhanced strength and flame resistance, the product contributes to sustainability efforts by achieving an annual CO ₂ reduction of 1.8 kg per 1.8 mm thickness.
AuroraTec™ F5PC/PBT10GF	FR 10% Glass Reinforced PC/PBT Black	Fiberglass reinforced flame retardant polycarbonate/polybutylene terephthalate with UL 94 flame ratings. Offers improved strength, dimensional stability, and stiffness over unreinforced grades. Ideal for applications where strength, durability, chemical resistance, and flame retardancy are required.

**Our R&D team can custom color and modify these options to meet your specifications.

Farming Equipment and Machinery

Tractors, seeders, and harvesters are always out in the elements – and their external parts need to stand up to UV rays, hot/cold cycles, fertilizer exposure, and more. That's why some of the leading brands in the agriculture industry use our engineered thermoplastics for their equipment. Our formulas offer superior durability, chemical resistance, and weight reduction that's durable, yet cost-effective. Plus, we can color match to assure your equipment matches your brand standards.

APPLICATIONS

Tractors, seeder and harvester parts, including:

- › Dash panels
- › Hoods/rips
- › Seeder discs



GRADE	MATERIAL	DESCRIPTION
AuroraGuard™ 2006	PC	UV stabilized, Injection Molding Grade, Static dissipative. Used to reduce dust buildup, enhance the effectiveness of sensors, and maintain clear visibility—resulting in more reliable, efficient, and trouble-free seeding operations.
AuroraGuard™ 130MFIM	PBT	30% Mineral Reinforced Polybutylene Terephthalate with low warpage
AuroraShield™ ENV31**	ASA	Similar to ABS in ease of processability and flow, acrylonitrile styrene acrylate combines impact resistance with inherent UV stability, making it an ideal choice for outdoor parts that require durability, weather resistance, and long-lasting appearance. Available in injection and extrusion molding grades.
AuroraShield™ ENV32**	PC/ASA	When your project demands both strength and long-lasting outdoor performance, polycarbonate/acrylonitrile styrene acrylate is the material of choice. Engineered for durability, it combines the toughness and strength of PC with the weather resistance of ASA, ensuring reliable performance in sun-exposed environments. Offers improved strength, outdoor reliability, color retention, and surface durability compared to PC or ASA alone. Available in injection and extrusion molding grades.
AuroraTec™ ENV39**	PC/PBT	UV stabilized and impact modified polycarbonate/polybutylene terephthalate. Compared to PC/ASA, PC/PBT offers similar durability in outdoor environments but offers improved resistance to chemicals. Recommended when both weatherability and chemical resistance are required. Available in injection and extrusion molding grades
AuroraTec™ ENV36**	PC/PET	UV stabilized and impact modified polycarbonate/polyethylene terephthalate. Similar to PC/PBT, PC/PET offers chemical resistance but with higher heat resistance and reduced warpage and molding shrinkage. Recommended for applications requiring chemical resistance combined with heat resistance. Available in injection and extrusion molding grades.
AuroraTec™ ENV70-30G10731B	TPU	30% Fiberglass reinforced Thermoplastic Polyurethane, Injection Molding Grade

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Growing Spaces, Hydroponics, and Irrigation

Dial-in exactly what you need for your growing spaces. Get rigid compounds that offer the chemical-resistance and pressure-resistance required for fertilizer, nutrient, and water delivery systems. For spaces exposed to the sun – inside or out – our ETP products resist yellowing and cracking from UV exposure. When your design requires clear panels, we'll customize a compound that helps you maintain optical clarity while resisting impact and chemical degradation.



APPLICATIONS

- › Indoor Farming/Vertical Farming
- › Light Diffusing Panels
- › Trays & Housings
- › Water Delivery Systems

GRADE	MATERIAL	DESCRIPTION
AuroraTec™ AP2294R	Rigid PVC	A high rigid, medium impact PVC powder compound designed for exterior blow molded applications
AuroraTec™ AP2465	Rigid PVC	A natural rigid PVC powder extrusion compound designed for extruded PVC pipe and conduit. AP2465ANT1001 is NSF certified for potable water and DWV applications under NSF standard 14/61.
AuroraTec™ AP1438	Rigid PVC	PVC powder, extrusion compound with midrange gloss, for exterior applications
AuroraEcoplast™ AP7101	Recycled	100% recycled rigid PVC pellet
AuroraTec™ RR5068	Rigid Clear PVC	Clear Rigid PVC pellet, used for exterior applications. Is also available for interior applications if required.
AuroraGuard™ ENV15**	PC/ABS	Impact modified and UV stabilized, natural polycarbonate/acrylonitrile butadiene styrene. PC/ABS is used for its toughness, easy processing, attractive finish, thermal stability, balanced properties, and cost-effectiveness. Available in injection and extrusion molding grades.
AuroraShield™ ENV31**	ASA	Similar to ABS in ease of processability and flow, acrylonitrile styrene acrylate combines impact resistance with inherent UV stability, making it an ideal choice for outdoor parts that require durability, weather resistance, and long-lasting appearance. Available in injection and extrusion molding grades.
AuroraShield™ ENV32**	PC/ASA	When your project demands both strength and long-lasting outdoor performance, polycarbonate/acrylonitrile styrene acrylate is the material of choice. Engineered for durability, it combines the toughness and strength of PC with the weather resistance of ASA, ensuring reliable performance in sun-exposed environments. Offers improved strength, outdoor reliability, color retention, and surface durability compared to PC or ASA alone. Available in injection and extrusion molding grades.
Auroraflex™ RX 12175 UVF Clear 100	Flexible Clear	Flexible Clear PVC compound for extrusion applications. Shore A hardness around 75
Auroraflex™ G2154DXUV Clear 520	Flexible Clear	Flexible Clear PVC compound for extrusion applications. Shore D hardness around 50



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Animal Husbandry

Get proven materials that help farmers and equipment manufacturers reduce maintenance costs, meet regulatory standards, and improve animal welfare. Our rigid PVC offers excellent chemical resistance against ammonia, disinfectants, and cleaning agents. It also allows you to produce smooth surfaces that prevent bacterial buildup and can be essential for disease prevention. Our ETP products are ideal for outdoor or barn use, providing impact resistance, UV stability and dimensional stability, even in fluctuating temperatures and humidity.

APPLICATIONS

- › Animal Housing
- › Milking Automation
- › Barn Panels
- › Clean Rooms



GRADE	MATERIAL	DESCRIPTION
AuroraTec™ RR6604	Rigid PVC	Rigid Profile PVC compound, high impact, suitable for twin screw extruders.
AuroraTec™ AP5104	Rigid PVC	A high rate, rigid PVC pellet extrusion compound with a broad processing window.
Auroralite™ AP3335AK	Rigid PVC	A rigid PVC powder compound for the extrusion of a low density foam
AuroraTec™ AP1269	Rigid PVC	Rigid PVC, high gloss, large process window
AuroraEcoplast™ AP7101	Recycled	100% recycled rigid PVC pellet
AuroraShield™ ENV32**	PC/ASA	When your project demands both strength and long-lasting outdoor performance, polycarbonate/acrylonitrile styrene acrylate is the material of choice. Engineered for durability, it combines the toughness and strength of PC with the weather resistance of ASA, ensuring reliable performance in sun-exposed environments. Offers improved strength, outdoor reliability, color retention, and surface durability compared to PC or ASA alone. Available in injection and extrusion molding grades.
AuroraTec™ ENV39**	PC/PBT	UV stabilized and impact modified polycarbonate/polybutylene terephthalate. Compared to PC/ASA, PC/PBT offers similar durability in outdoor environments but offers improved resistance to chemicals. Recommended when both weatherability and chemical resistance are required. Available in injection and extrusion molding grades
AuroraGuard™ ENV15**	PC/ABS	Impact modified and UV stabilized, natural polycarbonate/acrylonitrile butadiene styrene. PC/ABS is used for its toughness, easy processing, attractive finish, thermal stability, balanced properties, and cost-effectiveness. Available in injection and extrusion molding grades.
AuroraGuard™ PBT10IMU**	PBT	Impact modified and UV stabilized, polybutylene terephthalate. PBT is known for its chemical resistance, dimensional stability, low moisture absorption, fast molding, and high-quality finish.

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State-of-the-Art Facilities Advance Quality & Consistency

Aurora Material Solutions has polymer compounding facilities in the U.S., located in Streetsboro, Ohio; Welcome, North Carolina; Lunenburg, Massachusetts; Pasadena, Texas; Evansville, Indiana; Louisville, Kentucky; 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
- 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
- Newly built on-site UL certification testing laboratory



Streetsboro, Ohio



Welcome, North Carolina



Marieville, Québec



Lunenburg, Massachusetts



Pasadena, Texas



Evansville, Indiana



Evansville, Indiana



Louisville, Kentucky

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.

Corporate/Technical Center Production Facility

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Streetsboro, OH 44241
Phone: (330) 422-0700

North Carolina Production Facility

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Welcome, NC 27374
Phone: (336) 775-2640

Québec, Canada Production Facility

1877, Avenue Industrielle
Marieville, QC, Canada
J3M 1J5
Phone: (450) 460-4488

Lunenburg, Massachusetts Production Facility

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Phone: (978) 537-8261

Pasadena, Texas Production Facility

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Evansville, Indiana Production Facility

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Phone: (812) 868-0808

Evansville, Indiana Production Facility

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Louisville, Kentucky Production Facility

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