



PC, PC-Copolymer, & RPVC Compounds for Electrical Enclosures

Protect Vital Equipment with Proven Performance

Electrical enclosures face extreme durability challenges – from harsh outdoor conditions to demanding industrial and municipal environments. Aurora Material Solutions PC and PC copolymer compounds deliver the strength and versatility needed across a range of applications, with flame- and UV-resistant options that hold their shape and lightweight formulas that stand up to heavy use. Plus, they're fully customizable, so you can get exactly what you need to maximize performance.

Ideal for demanding, safety-critical applications

Our compounds have been used in stringent NEMA-qualified applications and meet key safety standards for flame retardancy, including UL 94 5VA and V-0. They also deliver superior electrical insulation compared to traditional metal boxes – creating a reliable safety barrier for sensitive electrical components.

Customizable while still meeting UL regulations

Need a compound that makes your enclosure tougher, lighter or more heat resistant? Need a custom color or tint? We can make it happen. With over 25 years of experience compounding in the electrical and electronics market, we understand that regulations require testing and certifications

that often leave little margin for modification. Our compounds are certified within a UL range, meaning we can make micro adjustments to our compounds to match your application needs, equipment parameters or custom color demands – without requiring additional certification.

Overcome exposure hazards – inside & out

With our PC and PC copolymer compounds you can design enclosures that are lightweight and corrosion-free, reducing installation and shipping costs compared to metals. You can also engineer-in environmental durability, like UV-resistance that keeps enclosures looking like-new and impact-modified formulas that shield critical components from drops and vibration.

Our compounds deliver strength and performance across a range of applications:

- Electrical & Telecom Enclosures
- Industrial Automation Housings
- Smart Grid Components
- Renewable Energy Systems

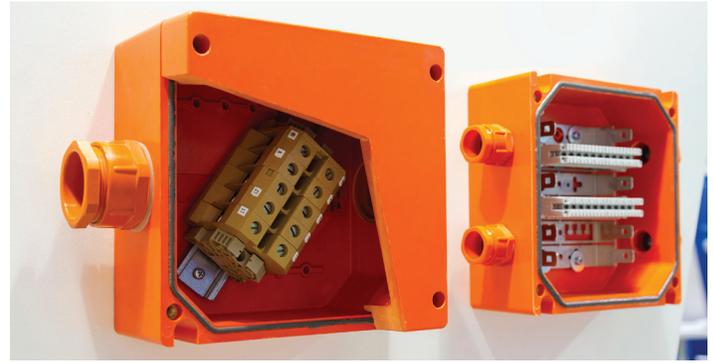


Why Partner with Us?

When you work with Aurora Material Solutions, you get a partner that helps you get the most out of your product – from idea to delivery.

Our internal technical teams collaborate with you at every stage of product development and production – helping you modify and customize our compounds as needed. Sampling and testing are also integral to our process. We'll consider cost saving options that maintain the performance parameters you need.

Our mission at Aurora Material Solutions is to be our customers' first choice in polymer compound solutions, enabling your success through innovation and consistently delivering high-quality products with exceptional customer service.



Aurora Material Solutions uses advanced compounding to ensure uniform quality from batch to batch – so you can deliver consistent performance from part to part. From durability to design flexibility, these materials set the standard for E&E enclosures:

GRADE NAME	FLAME RETARDANT	DESCRIPTION
PC POLYCARBONATE		
AuroraGuard™ 122	Yes	Flame retardant, excellent for thick parts without sinks; FR: 5VA @ 3.0 mm, V0 @ 1.5 mm
PC/PBT POLYCARBONATE/POLYBUTYLENE TEREPHTHALATE		
AuroraTec™ 393	Yes	Flame retardant, impact modified; FR: 5VA @ 3.0 mm, V0 @ 1.5 mm
PC/ABS POLYCARBONATE/ACRYLONITRILE BUTADIENE STYRENE		
AuroraGuard™ 153	Yes	5VA rating for flame retardancy; FR: 5VA @ 3.0 mm, V0 @ 1.5 mm
PET POLYETHYLENE TEREPHTHALATE		
AuroraGuard™ F0PET15GF	Yes	15% Fiberglass, flame retardant, high mechanical strength; FR: 5VA @ 3.0 mm, V0 @ 1.5 mm
PBT POLYBUTYLENE TEREPHTHALATE		
AuroraGuard™ 083	Yes	30% Fiberglass with a 5VA rating for flame retardancy; FR: 5VA @ 3.0 mm, V0 @ 1.5 mm
RIGID PVC POLYVINYL CHLORIDE		
AuroraTec™ AP4006AA	Yes	A high flow rigid PVC pellet compound designed for injection molding; FR: 5VA @ 3.0 mm, V0 @ 1.5 mm

Contact us to discuss the right engineered grade for your enclosure needs – including customized options.



Click or scan for more information on Aurora solutions for electrical enclosure applications.

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



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**.