



Rigid PVC (RPVC) for Electrical Conduit

Versatility and Compliance That Get the Job Done

Looking to improve your electrical conduit products or boost your production efficiencies? Aurora Material Solutions offers rigid PVC engineered to deliver. Our compounds for conduit are UL 651 certified for use in Schedule 40, Schedule 80, Type EB and Type A piping – passing the crush tests and meeting the flame-retardancy standards that matter most in electrical applications. As part of the Aurora Material Solutions family of products, these compounds are also backed by our manufacturing and technical support teams to keep your production moving – and give you a competitive advantage.

Customizable while still meeting UL 651

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 range for UL 651, meaning we can make micro adjustments to our compounds to match your application needs, equipment parameters or custom color demands – while staying compliant. A customized formula can maximize your performance, cost and output.

Available on your schedule

Raw material availability and streamlined logistics can make or break your business. That's why we are set up for fast, on-time sourcing and high-capacity production. Aurora Material Solutions has polymer compounding facilities strategically located across the U.S., assuring responsiveness as well as trusted quality.

Consistent quality

Compound consistency is as critical to us as it is to you. Our quality control standards mean multiple checks from batch to batch. We measure rheology, color and powder/pellet properties several times during production, and our state-of-the-art blending equipment helps us maintain our industry-leading tolerances.

Optimized for your equipment

We'll work with you to optimize our compounds for your equipment – not the other way around.

Our RPVC materials for conduits are designed to withstand environmental and mechanical stressors, ensuring safe, reliable performance.

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.



We offer a variety of RPVC grades, including standard and high output options in powder or pellet. Our RPVC compounds are also available in formulas with recycled content.

GRADE NAME	FLAME RETARDANT	DESCRIPTION
RIGID PVC POLYVINYL CHLORIDE		
AuroraTec™ AP4020B	Yes	A high flow rigid PVC pellet compound designed for injection molding; Flame rating: 5VA @ 3.0 mm, V0 @ 1.5 mm
AuroraTec™ AP4006AA	Yes	A high flow rigid PVC pellet compound designed for injection molding with high impact properties; Flame rating: 5VA @ 3.0 mm, V0 @ 1.5 mm.
AuroraGuard™ AP2501BNT1000	Yes	A higher temperature PVC powder extrusion compound for interior applications; Flame Rating: HB
AuroraTec™ AP5120A	Yes	A general-purpose rigid PVC pellet, extrusion; good melt strength, excellent color dispersion and excellent physical properties; V0 @ 1.5 mm

Contact Aurora Material Solutions to discuss your options for a specialized electrical grade conduit.



Click or scan for more information on Aurora solutions for conduit applications.

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