



AURORA
GUARD[™]

PBT + Glass

Incredible Chemical Resistance Across a Range of Challenging Applications

Aurora Material Solutions is a dynamic and innovative company that produces the highest quality plastic compounds in both powder and pellet form. Our compounds perform consistently and reliably in a variety of applications. Our experts will work with you to create the right formulation, considering all factors that meet your specific application needs.



Add Rigidity & Chemical Protection to Any Product

PBT (polybutylene terephthalate) is a thermoplastic semi-crystalline polymer – a type of polyester. When PBT is reinforced with fiberglass, it brings superior stiffness, rigidity and chemical resistance to extruded parts. These properties make the AuroraGuard[™] PBT + Glass compound ideal for a variety of challenging applications where chemical resistance, heat resistance and dimensional stability are required. Applications include: induction domes in manufacturing facilities or chemical plants, computer keys, and tool or firearm handles used in harsh environments. Our PBT is blended with up to 40% fiberglass, making it heat-resistant up to 392°F (200°C). Using a twin-screw extruder with downstream feed, we can achieve an incredible level of control over the integrity of the glass fibers we use. This delivers the highest level of stiffness possible in a PBT + Glass product, making AuroraGuard[™] PBT + Glass strong and durable enough for use in structural supports and housings in automotive.

Flame-Retardant for Electrical Applications

AuroraGuard™ PBT + Glass can be formulated to your exacting specifications to match the demands of your unique application. Flame-retardant properties can be added for use across a variety of electrical equipment, including fuse boxes, electronic board supports and circuit breakers. Lower percentages of glass can also be used for E&E applications such as circuit breakers. Our unique twin screw extruder also helps us maximize the dispersion of the flame-retardant chemical for a more consistent end product. Our goal is to create a compound that is heat-resistant and non-combustible.



Fast Molding

With a heat deflection temperature up to 392°F (200°C), our polymers deliver faster molding with minimal shrinkage during forming.

Expect Exceptional Service and Speed

Repeat business is how we've built our company. Our customers appreciate fast quotations, an ability to handle any order size, and an unsurpassed lead time. Beyond service and speed, is exceptional quality. Our manufacturing facilities are certified to ISO 9001:2015 with Design manufacturing dedicated solely to custom compounding, as well as achieving industry-leading tolerances on manufacturing processes.

Aurora Material Solutions isn't the only supplier of polymer compounds, but we separate ourselves from the competition as a custom compounder, driven by a continuous improvement mindset. Our goal is to provide the highest quality products and the best customer service in the industry. We work closely with you throughout the process to meet your specific needs, from determining the formulation for the job, to assistance with colors and compound matching. Aurora Material Solutions strives to be our customers' "first choice" in plastics compounding.



3 pole Circuit breaker – 20% GF V0 PBT

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