

EGC Plastics - A Total Source

Since 1959, EGC Plastics has been the leader in providing custom manufactured components made from the world's highest performance plastics. EGC Plastics is a preferred supplier to the Aerospace, Semiconductor and Fluid Handling industries.

EGC Plastics is recognized for working in unison with customers to develop innovative solutions to problematic applications where corrosion, wear, friction, exposure to temperature extremes, lubricity, sealing and ultra purity are critical factors in product performance.

Fenner Advanced Sealing Technologies

Fenner Advanced Sealing Technologies (FAST) works closely with customers to supply sealing solutions for the most demanding performance-critical applications by using the most advanced materials and technology.

FAST manufactures and distributes specialized seals, and provides advanced sealing solutions for process and fluid power applications throughout Europe, North America and the Asia Pacific region.

Applications include Mining, Automation, Earth-Moving and Construction machinery, Petrochemical, Oil and Gas Downstream activities, as well as Pharmaceutical, Medical, Semiconductor and Aerospace sectors.

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Aerospace and Defense

www.egcplastics.com



Aerospace and Defense



Today, EGC Plastics develops and manufactures a wide range of fluoropolymer tapes used for insulating power cables, hoses for hydraulic and fuel circuits, for protecting electrical circuits.

We can also produce custom-made machined components in PTFE and PEEK or other high-performance plastics based on customer requirements. EGC Plastics' Research and Development Team continues to develop solutions with high-performance polymers, whose characteristics provide the same performance criteria as metals while providing additional advantages, such as lower density reduction and significant mechanical and anti-corrosion features.

Engineered plastic components can be custom manufactured to meet design principles of Aerospace OEM's. At EGC Plastics the polymer selection and materials design, molding process development and manufacturing of products is supported in one location.

Products comprised solely of polymeric materials are a good fit in environments

requiring low friction as well as in areas where cryogenic or elevated temperature conditions exist. Plastics components can create weight advantages over metals and can be resistant to many elements such as rain erosion, jet fuel and other lubricants that they come in contact with. Many plastics can withstand harsh environmental conditions such as the flux from cryogenic to elevated temperatures, repeatedly with minimal, if any effects on the part dimensions. Using internal lubricants in the polymer in its pre-processed state eliminates the need to coat final components with contaminating oils yet maintain lubricity for ease of use. Plastic can replace metals in many applications, and part configuration can create a high degree of functional integration to reduce the number of components required in the overall equipment design.

Strategic selection of a polymer is the first step of the ultimate product's fitness. Understanding the process of initially converting the raw polymer is as essential in the final part formation as understanding the application conditions. This leverage

allows the component optimum performance in the final product design. The culture at EGC Plastics consists of a high performance development community which includes the polymer scientists, process engineers and the OEM's design team to allow the collaboration necessary to identify and fix the most critical barriers at the project's inception. EGC Plastics understands how critical this collaboration can be in product development towards successful results.

Volume production of the product is the goal of our development process. Prototype results are duplicated in the final manufacturing process at EGC Plastics. It is our goal to develop only those projects that can be manufactured repeatedly within our facilities utilizing the highest degree of engineered polymer expertise to result in the competitive advantage that our customers seek.

