“WE GET IT”

The Aerospace industry is continuously evolving to address today’s challenges; achieving greater fuel efficiency, better safety, increased range and higher speed. To meet these new demands, systems and components must be lighter, stronger, faster, smarter, and more reliable.

At Parker Engineered Polymer Systems (“EPS”) Division, our expertise in material science, predictive modeling and customer applications are on the cutting edge.

Engineers and designers of aircraft and aircraft systems turn to Parker to achieve new heights in sealing possibilities. We offer customers increased temperature resistance, fluid compatibility, pressure and wear resistance as well as speed to market. Our team of technical experts ‘gets it’ and our track record proves it.

Let Parker be your development resource and preferred component supplier.

Together, we can make it lighter, stronger, faster, smarter, and more reliable — the first time.
Polymer Science

Parker is proud to be the industry expert in compound development and material science for all seal materials including:

- PTFE
- Thermoset elastomers (FKM, NBR, HNBR, EP)
- Thermoplastic elastomers & polyurethanes (TPE, TPU) including an optical grade polyurethane
- Engineered hard plastics and performance resins (PEEK, Hytrel®, Nylon, PAI, PI)

Applications Expertise

At Parker we understand industry trends and work with our customers to develop sealing solutions for applications such as:

- Airframe
- Engine systems
- Power transmission, gear boxes
- Flight controls
- Hydraulics and actuation
- Landing gear
- Wheel and brake

Product Design

Our product portfolio includes a broad range of validated seal designs. Products include:

- Flame resistant fire seals
- FlexiSeal™ spring-energized PTFE lip seals
- Precision aerospace T-seals
- Rotary shaft seals, including composite Clipper® Oil Seals
- High pressure back-up rings
- Long-wearing single- and double-acting PTFE slipper seals and scrapers
- High temperature polymer bearings and wear rings

Manufacturing

Parker’s array of manufacturing facilities provides customers with capacity, flexibility, and processing options. Our manufacturing technologies give customers access to the most cost-effective means to meet their unique product requirements including:

- Injection molding
- Precision machining
- Value added services such as: kitting, assembly, leak testing, part marking, packaging

Quality

Aerospace customers demand uncompromising quality and flawless documentation.

“We get it!” – and we deliver.

At Parker, we build quality into each and every product. We employ strict process controls and utilize statistical analysis tools to continuously improve the quality of our products and services with:

- AS9100 certified facilities
- Back-to-birth traceability
- Six Sigma & Lean methodologies

Aerospace Specifications

Parker designs custom engineered solutions in addition to supplying a broad range of commercial seals and profiles for Aerospace applications. Our products conform to many common industry specifications, including, but not limited to:

AMS3644  AMS3651  AMS3656  AMS3660  AMS3670  AMS3678  AS4716  AS4752  AS5758  AS5782  AS5857  AS5860
AMS8508  ASTM D4745  ASTM D4894  ASTM D5204  MIL-G-5514  MIL-P-46183  MS27595  MS28776  MS33675  MS33675