

Plastics for Military and Defense Applications



BENEFITS OF PLASTIC:

- Grades available that meet flame, smoke, and toxicity requirements
- High temperature and low temperature capabilities
- Resistance to greases, fuels, and other chemicals
- Toughness and impact resistance
- Reduced weight
- Reduced noise and vibration
- Improved aesthetics
- Sealing characteristics
- Bearing and wear characteristics
- Transparency

Engineering materials to meet your needs

Curbell Plastics has a broad inventory of plastic materials to meet the demanding performance requirements of military and defense hardware components. We know these materials must stand up to extreme operating environments, and strictly adhere to specifications with lot and batch traceability. In support of defense-related product manufacturing, Curbell Plastics is ISO 9001 certified at multiple locations and maintains ITAR and EAR compliance company-wide.

Plastics are used for a wide range of military and defense applications including instrument panels, bearings and bushings, locking fasteners, radomes, seals, and spline couplings.

Material selection, expert advice

"Our new weapons system requires lightweight electrical insulators that comply with standard military specifications. Curbell helped us to identify a number of polymer materials for these applications."

– Curbell Customer Feedback

TYPICAL APPLICATIONS:

- Avionics and instrument panels
- Bearings, bushings, gears, cams
- Electrical connectors
- Locking elements for fasteners
- Radomes
- Seals, valves, seats, gaskets
- Spline couplings
- Windows, covers, and cases

COMMON MATERIALS:

- Acetal (Delrin®)
- Acrylic
- Dupont™ Vespel® Polyimide
- G10 and FR-4 glass/epoxy
- HDPE
- KYDEX® Thermoplastic Sheet
- Nylon
- PEEK
- Polycarbonate
- PTFE
- Ultem®



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