Plastics for **Aerospace Applications**

BENEFITS OF PLASTIC:

- Grades available that meet flame, smoke, and toxicity requirements
- High temperature and low temperature capabilities
- Resistance to aviation fuels and other chemicals
- Toughness and impact resistance
- Aesthetic qualities including color and surface texture
- 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 the aerospace industry. We know this industry requires materials that stand up to extreme operating environments, and strictly adhere to specifications with lot and batch traceability.

Plastics are used for a wide range of aerospace applications including bearing and wear components, seals, instrument panels, and locking fasteners.

Material selection, expert advice

"Curbell worked closely with our team as we selected materials for the next generation of our aerospace valves. With their help, we successfully extended the operating capabilities of our products."

– Curbell Customer Feedback

TYPICAL APPLICATIONS:

- Aircraft tray tables
- Aircraft windows and canopies
- Air-return grills
- Arm rests
- Avionics instrument panels
- Bearings and bushings
- Composite tooling
- Interior components
- Locking elements for fasteners
- Seals
- Spines
- Valve seats
- Wire insulation

COMMON MATERIALS:

- Acetal
- Acrylic
- Dupont™ Vespel® Polyimide
- FEP
- G-10 and FR-4 glass/epoxy
- KYDEX® Thermoplastic Sheet
- Nylon
- PAI
- PEEK
- PFA
- Phenolic
- Plasma spray masking tape
- Polycarbonate
- Polyimide film
- Polyurethane and epoxy tooling resin
- PTFE
- PTFE Film Tapes
- PVDF (Kynar®)
- Radel® R
- UL-recognized RTV silicones
- Ultem®

CURBELL PLASTICS

www.curbellplastics.com
1.888.CURBELL (287-2355)

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