Plastic Shapes for Aerospace
Engineered Plastics Solutions

thyssenkrupp
Where Will You Find Engineered Plastics?

Control and Actuation Systems
- Control linkages and APU’s
- Control surface bearings
- Clutch brakes
- Bushings and guides in control linkages

Auxiliary Power Units
- Bushings
- Thrust washers
- Shaft bearings
- Seals

Mid-Air Refueling Systems
- Seal rings
- Hydraulic actuators

Subsystems
- Thermal and electrical insulators in Radar and RF systems
- Ball bearing retainers in avionics
- Electrical isolation in fuel system
- Valve seats in emergency exit regulators, oxygen life and support systems

Brake Systems
- Coil bobbins

Nacelles and Engine Parts
- Thrust reverser channels
- Slide blocks and slider shoes
- Bushings and washers
- Wear pads, bumpers and strips
- Insulators and seals

Replacing Metals Every Day...
Advances in plastics technology equate to stronger parts that are significantly lighter, dirving fuel saving and extending maintenance life cycles.

Authorized DuPont™ Vespel® Distributor
As an authorized distributor for DuPont™ Vespel® Shapes, tkEP ensures that every shape you purchase from us will arrive with a genuine tamper-evident and serialized label. In addition your Vespel® material will be accompanied by an official DuPont Certificate of Conformance.

We take our commitment to the aircraft and aerospace industries and to DuPont seriously. We will never substitute with another material or provide ground material.

<table>
<thead>
<tr>
<th>SP-1</th>
<th>Unfilled polyimide</th>
<th>SCP COPOLYMER POLYIMIDE</th>
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<tbody>
<tr>
<td>SP-21</td>
<td>15% Graphite filled</td>
<td>SCP-5000 Unfilled</td>
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<tr>
<td>SP-22</td>
<td>40% Graphite filled</td>
<td>SCP-50094 Graphite filled</td>
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<tr>
<td>SP-211</td>
<td>Graphite/PTFE filled</td>
<td>SCP-5050 High graphite filled</td>
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<tr>
<td>SP-3</td>
<td>15% MoS₂ filled</td>
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<tr>
<td>SP-202</td>
<td>Electrically conductive grade</td>
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Selecting Engineered Plastics Solutions

High Performance Plastics
- Celazole® (PBI)
- DuPont® Vespel®
- Duratron®
- ECTFE
- FEP
- Fluorosint
- PAI
- PAI
- PAES
- PAS
- PCTFE
- PEI
- PES
- PPS
- PSU
- PPSU
- Radel R®
- Rulon®
- Ryton®
- Semitron®
- Sustakon®
- Techtron®
- Sulfones
- Ultem®

Engineered Stock Shapes
- ABS
- Acetal (POM)
- Acetron®
- Cast acrylic
- Cast nylon
- Celcon®
- Delrin®
- Ertalyte®
- Extruded acrylic
- Extruded nylon
- Flouroisint®
- Hydex®
- Hydil®
- Kynar®
- Nylatron®
- PBT
- PET
- Polycarbonate
- Polystone®
- Polysulfone
- Polyurethane
- PPS
- SUSTA®
- SUSTADUR
- SUSTAGLIDE
- UHMW

High Pressure Laminates
- CE
- Composites
- Copper Clad
- G-9, G-5
- G-10/FR4, G-11
- LE
- Micarta
- Phenolics
- XX and XXX
- CPVC
- HDPE
- Kynar®
- HDPE
- Polypropylene
- PTFE
- PVC

Special Solutions For Aircraft
- Acrylic aircraft grade mirror
- Polycarbonate aircraft grade mirror
- Silicons
- Urethane resin systems

call 877.246.7700
thyssenkrupp Engineered Plastics has 11 branch locations with full inventory and processing capabilities. In addition we have warehousing of select materials in California for fast and economical local deliveries.

- **Florida**
  8143 Eagle Palm Drive
  Riverview, FL 33578

- **Georgia**
  1980 Shiloh Road
  Building 7, Suite 150
  Kennesaw, GA 30144

- **Illinois**
  300 County Line Road
  Bensenville, IL 60106

- **Massachusetts**
  110 Shawmut Road
  Canton, MA 02021

- **Michigan**
  10 Corporate Drive
  Auburn Hills, MI 48326

- **Missouri**
  13732 Rider Trail North
  Earth City, MO 63045

- **New York**
  60 Fullerton Avenue
  Yonkers, NY 10704

- **Ohio**
  1360 Boltonfield Street
  Columbus, OH 43228

- **Pennsylvania**
  499 Running Pump Road
  Suite 16
  Lancaster, PA 17601

- **Texas**
  3001 Alouette Drive
  Suite 100
  Grand Prairie, TX 75052

- **Virginia**
  1347 Diamond Springs Road
  Suite 100
  Virginia Beach, VA 23455

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thyssenkrupp Engineered Plastics Strategic Partners

- **Quadrant**
- **Ensinger**
- **Röchling**
- **Cast Nylons**
- **Covestro**
- **DuPont™ Vespel®**
- **Saint-Gorain**
- **Gehr**
- **Kydex®**