

Materials Services  
Engineered Plastics

# 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

### 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

### Auxiliary Power Units

Bushings  
Thrust washers  
Shaft bearings  
Seals

### Mid-Air Refueling Systems

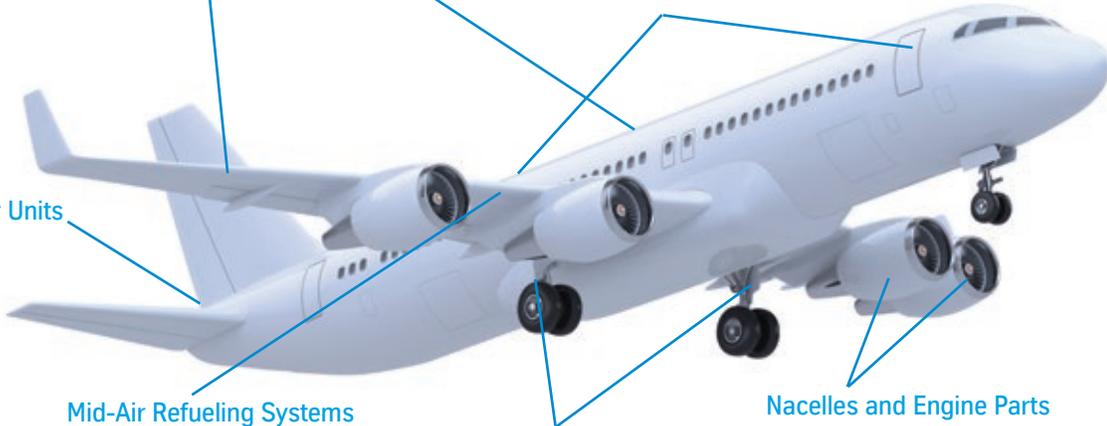
Seal rings  
Hydraulic actuators

### 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, driving 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.

**SP-1** Unfilled polyimide

**SP-21** 15% Graphite filled

**SP-22** 40% Graphite filled

**SP-211** Graphite/PTFE filled

**SP-3** 15% MoS<sub>2</sub> filled

**SP-202** Electrically conductive grade

### SCP COPOLYMER POLYIMIDE

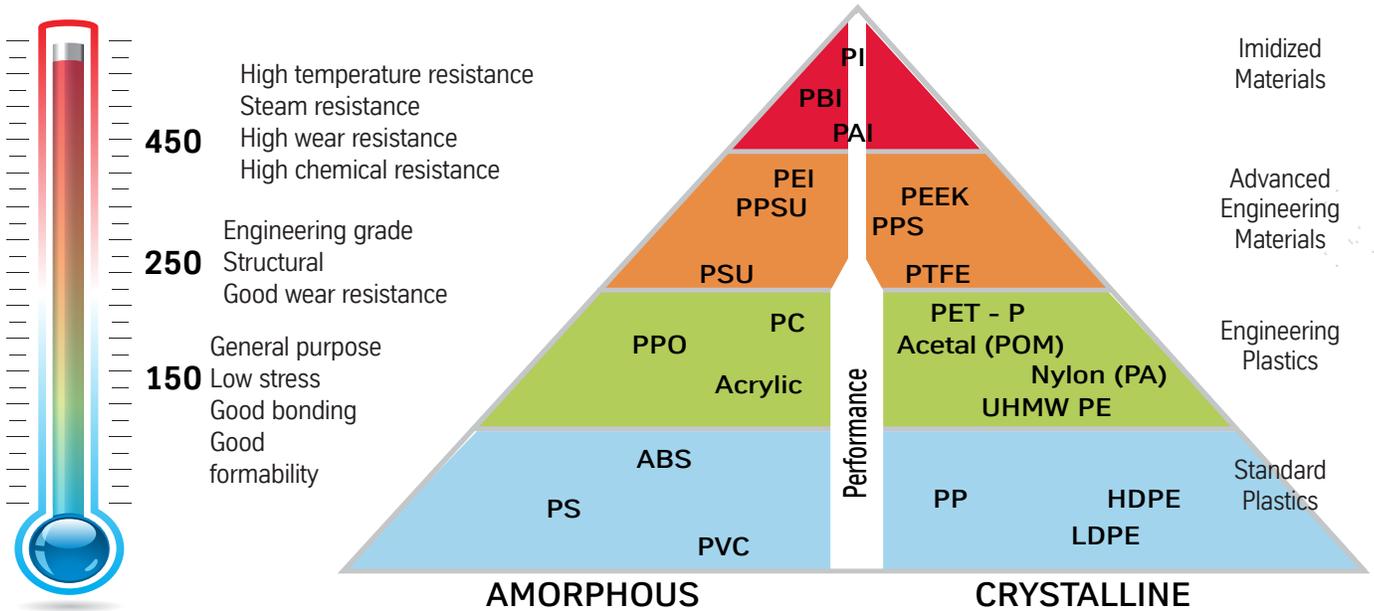
**SCP-5000** Unfilled

**SCP-50094** Graphite filled

**SCP-5050** High graphite filled



# Selecting Engineered Plastics Solutions



## High Performance Plastics

Celazole® (PBI)	Fluorosint	PAI	PES	Ryton®	Techtron®
DuPont™ Vespel®	Halar®	PAI	PSU	Semitron®	Torlon® (PAI)
Duratron®	Noryl	PAES	PPSU	Sulfones	Ultem®
ECTFE	PCTFE	PAS	Radel R®	SUSTAKON®	
FEP	PEEK	PEI	Rulon®		

## Engineered Stock Shapes

ABS	Celcon®	Flourosint®	Nylatron®	Polysulfone	SUSTADUR
Acetal (POM)	Delrin®	Hydex®	PBT	Polyurethane	SUSTAGLIDE
Acetron®	Ertalylte®	Hydlar®	PET	PPS	UHMW
Cast acrylic	Extruded acrylic	KYDEX®	Polycarbonate	SUSTA®	
Cast nylon	Extruded nylon	NyCast®	Polystone®		

## High Pressure Laminates

CE	G-9, G-5	Micarta
Composites	G-10/FR4, G-11	Phenolics
Copper Clad	LE	XX and XXX

## Polyolifins and Corrosive Environment Materials

CPVC	LDPE	PVDF
HDPE	Polypropylene	PTFE
Kynar®	PVC	

## Special Solutions For Aircraft

Acrylic aircraft grade mirror	Polycarbonate Aircraft grade mirror	Silicones	Urethane resin systems
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call  
**877.246.7700**

# 877.246.7700

[www.tkengineeredplastics.com](http://www.tkengineeredplastics.com)

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  
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Canton, MA 02021

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10 Corporate Drive  
Auburn Hills, MI 48326

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