

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

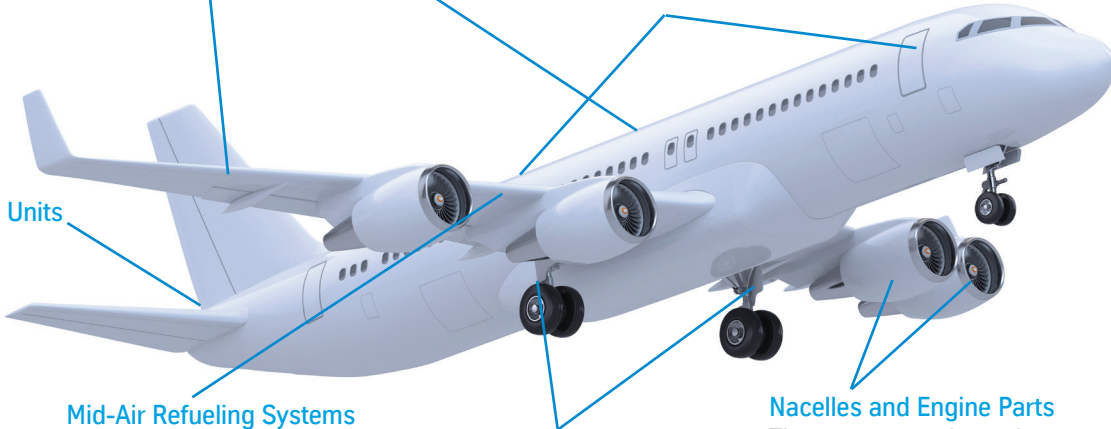
Seal rings
Hydraulic actuators

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% MoS₂ filled

SP-202 Electrically conductive grade

SCP COPOLYMER POLYIMIDE

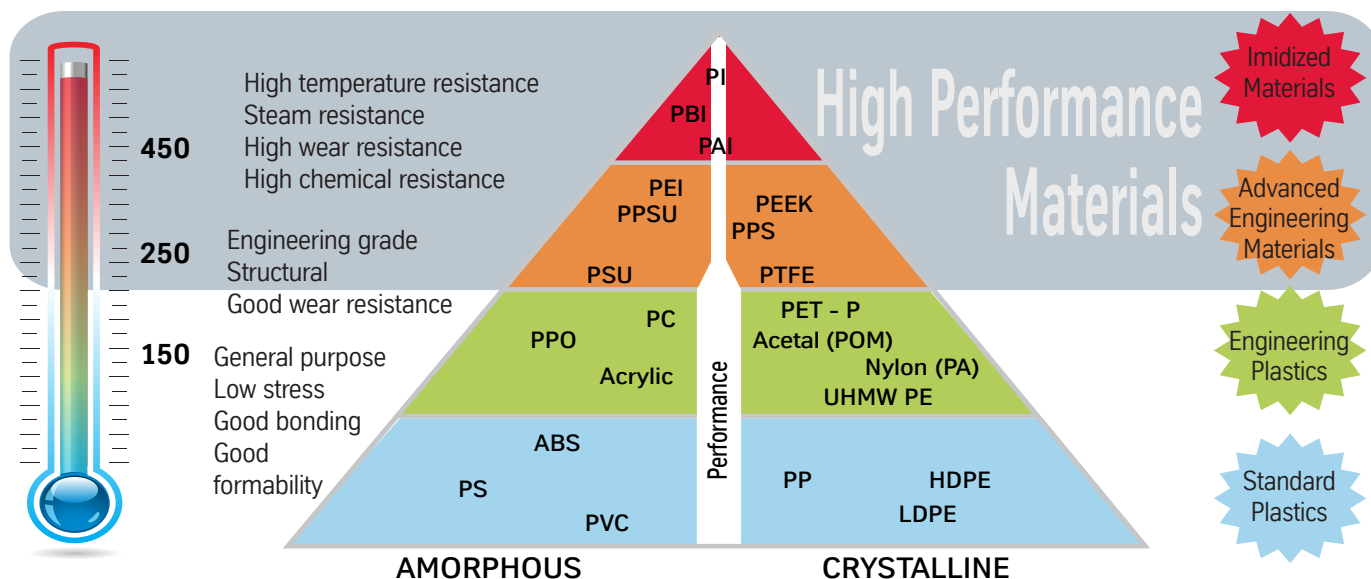
SCP-5000 Unfilled

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®	Ertalyte®	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

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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