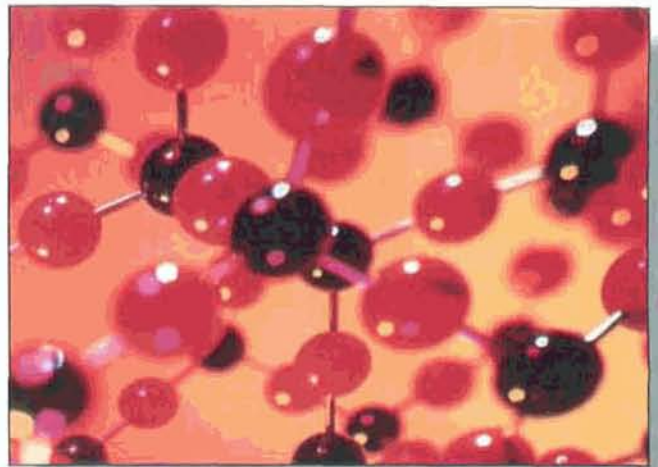




If you need access to the widest range of engineering plastics - delivered to you with a 24/48 hour or JIT delivery service - you need a partnership with Smiths.



Smiths offers you:

- **A VAST PRODUCT RANGE:**
Over 3000 product lines in both general engineering and specialist high performance plastics.
- **FULL UK COVERAGE:**
Provided by 15 strategically located Smiths' sites and our own fleet of almost 60 delivery vehicles.
- **VALUE FOR MONEY:**
Smiths' vast range and cutting service allows you to meet your exact requirements with minimal waste.
- **TIMELY & RELIABLE DELIVERY:**
Your choice of 24/48 hour or JIT delivery.
- **FIRST STAGE ENGINEERING:**
Smiths' comprehensive cutting service, including sawing, guillotining, blanking and profiling can reduce your through-cost by taking out costly first stage processing.
- **TOTAL QUALITY:**
Smiths operate to the highest standard in quality systems with ISO 9001 & CAA approval. Traceability is guaranteed with our industry unique barcoding systems.

PRODUCT RANGE Smiths offer you one of the largest ranges of engineering plastics in Europe. All product types are offered in a variety of shapes appropriate to the end-use application.

ROD	SHEET	PLATE
HEXAGON	FOIL	BAR
TUBE	FILM	PROFILES

Nylon	Acetal	PVC
Polycarbonate	Polyester	Polyethylene
Polypropylene	PTFE	Acrylic
ABS	PSU	PPS
PEEK	PVDF	PPE
PES	Industrial Laminates	

ENGINEERING *plastics*

THERMOPLASTICS

Nylon (PA – Polyamide)

Nylon 66, 6, 12, 4,6 / MoS₂, Glass, and Lubricant filled versions
Tough, excellent bearing properties, good chemical resistance.
Wide range of grades available – glass filled for structural parts,
impact modified types and enhanced bearing grades.

Acetal (POM – Polyoxymethylene)

POM C, POM H (Delrin®) / Glass filled / Static Dissipative /
PTFE filled versions
Good bearing properties, excellent dimensional stability.
Excellent machinability. POM C is available in a variety of colours.

PTFE (Polytetrafluoroethylene)

Exceptional corrosion and electrical properties. Lowest coefficient
of friction. Wide range of operating temperatures.

PVC (Polyvinylchloride)

Standard uPVC in colours and transparent / CPVC / Hi
Impact / Static Dissipative versions
Exceptional chemical resistance and good mechanical properties.

Polyester (PETP – Polyethylene-terephthalate)

Good mechanical properties and heat resistance. Good electrical
insulator. Superior dimensional stability. Food approved.

Polyethylene (PE)

HDPE, UHMWPE
Excellent chemical resistance and low temperature impact resistance.
Extreme abrasion resistance. Food approved.

Polypropylene (PP)

Standard / Glass filled / Static Dissipative versions
Good chemical resistance and heat resistance (100°C). Food
approved.

Polycarbonate (PC)

Natural and Glass filled versions
Transparent with high stiffness. Natural grade has excellent impact
resistance down to -50°C.

Acrylic (PMMA – Polymethyl methacrylate)

Excellent clarity. UV resistance. Good hardness and abrasion
resistance, tracking resistance.

ABS (Acrylonitrile butadiene styrene)

Hard and reasonably tough. Good finish and machinability.
Can be electro-plated.



PEEK (Polyetheretherketone - Victrex®)

450G Natural and Black / GF30 / FC30 (PEEK mod) /
Medical Grade versions

Very high performance material. Excellent all round properties
including heat resistance (250°C) and radiation resistance.
UL94 V-0 flammability.

PSU (Polysulfone)

High performance - (160°C) and high resistance to acids and alka-
lis. FDA approved, autoclave resistant and good dielectric proper-
ties. UL94 V-0 flammability.

PPE (Polyphenyleneether - Noryl®)

Standard and Glass filled versions
A very good combination of mechanical, thermal and electrical
properties. Food approved.

PES (Polyethersulfone)

High temperature resistance, +180°C continuous, and good
mechanical properties. Good radiation resistance.
UL94 V-0 flammability.

PVDF (Polyvinylidene fluoride)

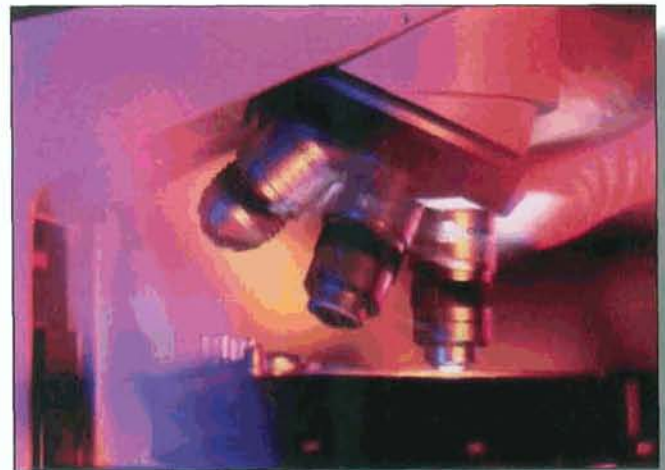
Higher strength alternative to PTFE with better deformation
resistance and dimensional stability.

ECTFE (Ethylene-chlorotrifluoroethylene - Halar®)

Extremely high impact strength, even at -40°C.
Good insulator, high radiation and chemical resistance.
Self-extinguishing and food safe.

PPSU (Polyphenylene-sulfone)

Better impact strength, chemical and hydrolysis resistance
compared with PSU, PEI or PES. Thermal and dimensional
stability. Very good resistance to high-energy radiation.
Low smoke emission. Self-extinguishing and food safe.



THERMOSETS

SRBF (Synthetic resin bonded fabric)

SRBF F1 F2 BS 2572

Cotton fabric. Very good strength, stiffness and wear resistance.
Suitable for mechanical applications.

SRBP (Synthetic resin bonded paper)

SRBP P1 P2 P3 BS 2572

Paper. Good mechanical properties. Excellent electrical properties.
Electrical applications.

EBGF (Epoxy bonded glass fabric)

EBGF EP4 EP7 EP7+ BS 3953

Glass fibre. Excellent high temperature mechanical and electrical
properties.

A dedicated central operation to handle all trade enquiries quickly and efficiently

01767 604700