



The Enclosure & Instrument  
Case Designer & Manufacturer

# PERANCEA Plastic Fabrication



In addition to Fine Tolerance Sheet Metalwork capabilities, Perancea provides proven high accuracy plastic fabrication & precision machining to meet even the most demanding of requirements. The company commands a wealth of experience built up over more than 30 years of providing quality plastic engineering components.

Capabilities include CNC punching, machining, drilling, routing, turning, milling & engraving, as well as providing highly viable solutions for electronics, electrical, aerospace, medical & communications applications.

Materials, sheet, rod, tube & bar, range from ABS, Acrylics, Nylons, Polyacetals, Polycarbonate, Polyethelene, Polypropylene, PTFE, PVC, SRBF & SRBP.

**With positive company watchwords of 'fit for purpose & delivery on time' call Perancea for a quality cost effective solution to your fabrication requirements.**

## PERANCEA LTD

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In line with our policy of continuous improvement, we reserve the right to make design or product alterations without prior notice.

# Materials for Plastic Fabrication

Material	Profile	Colours	Material Characteristics
Polyacetal Copolymer	Rod, Tube & Sheet	Natural & Black	Easy to machine low moisture absorption, good impact & wear resistance. Excellent for close tolerance applications including food. Includes Ertacetal, Kemetal & Hostaform.
Polyacetal Homopolymer	Rod, Tube & Sheet	Natural & Black	Similar to co-polymer but with improved wear resistance & mechanical performance. Less resistant to chemicals. Includes Delrin.
Nylon 6 & Nylon 6 MOS2	Rod, Tube & Sheet	Natural & Black	Tough general purpose material with good impact & high wear resistance. Low co-efficient of friction. Good for dynamic loading. MOS2 improves bearing properties. Includes Ertalon, Grilon, Tecamid & Zytel
Nylon 6 Cast	Rod & Tube	Natural, Black & a range of Colours	Castable as blanks or components and similar in properties to Nylon 66. Oil. PE & PTFE can be added to improve wear resistance. Includes Aquanyl, Ertalon, Nylatron, Nylube & Oilon.
Nylon 66	Rod, Tube & Sheet	Natural & Black	The hardest & stiffest of the unreinforced nylons. Excellent abrasion & good chemical resistance. More machinable than other nylons. Includes Grilon T, Sustamid66 & Zellamid.
PEEK	Rod & Sheet	Grey	Comparatively expensive but excellent for high temperature applications up to 250°C. Good mechanical, electrical & chemical properties.
PETP	Rod & Sheet	White	High performance material with high resistance to chemicals & creep. Easy to machine and stable with good hardness and stiffness. Notch sensitive. Includes Ertalyte & Novafron.
Polyethylene (PE)	Rod & Sheet	Natural, Black & a range of Colours	High chemical & impact resistance. Low co-efficient of friction moisture absorption. Good for sliding & wear applications but susceptible to creep with temperature change. Includes Ultrawear & Tivar.
Polypropylene	Rod & Sheet	Natural	Lightweight with similar properties to PE. Good electrical insulator. Easily formed and welded for chemical and other tank applications. Includes Hostalen & Propathene.
PTFE	Rod & Sheet	White	Outstanding chemical & electrical resistance even at high working temperatures. Relatively soft & expensive. Includes Fluon, Hostaflon & Teflon.
PVC	Rod & Sheet	Red, Dark Grey, Black & a range of Colours	Low cost, dimensionally stable with good chemical resistance. Easy to fabricate and solvent weld. Foamed versions offer weight savings. Includes Darvic, Foamex, Vestolit & Vinidur,
Acrylic	Rod, Tube & Sheet	Clear, Black & a range of Colours	Common signmaking & PoS material. Easy to cut, join, polish & fabricate including thermo-form. Includes Aultuglas, Perspex & Plexiglas.
Polycarbonate	Rod & Sheet	Clear & Black	For similar applications to acrylic but with higher impact resistance for guards & screening. Includes Lexan, Resart & Makrolon.
PETG	Sheet	Clear	Cold formable in thin sheets with reasonable impact resistance. Includes Vectan, Veralite & Vivak.

Other materials available include PEI, PES, SRBF, SRBP, VESPEL, Polyamide, Polyimide & ABS

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