Nimrod's Product Brochure

Just a small listing of our massive selection at Nimrod Plastics

Phone: (02) 4322 4333 - Fax: (02) 43224 344
3,3 Daintree Close GOSFORD WEST NSW 2250  Australia

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NIMROD PLASTICS

PLASTIC ENGINEERING AND FABRICATION

Nimrod Plastics is a privately owned Australian Business, specializing on the technical applications of thermoplastic materials in Engineering Environments.

Nimrod supplies a comprehensive range of Engineering Plastics and has design and application skills to support OEM, the maintenance and the manufacturing section of the industry. Nimrod and it’s associated companies have a long standing reputation in their chosen market and are proud to represent the highest quality International brand names.

Nimrod Plastics is a 100% privately owned Australian Company with over 30 years experience within the industry.

We offer an extensive product selection in both. Unlike many other Plastic Manufactures’, we provide more than just a standard product list. All of our products can be produced to the specific size and requirements of our customers. We will couple together any items in a range, allowing you to create your own unique design.

Nimrod Plastics products are designed by our innovative Research and Development team. We are proud of our product range and have received Design Awards for our superior plastic products.

When you purchase your Plastics it is important that you get what you want, we guarantee that you can expect both superior products and service from Nimrod Plastics.

Derek Collins

General Manager and Owner
Derek@nimrodplastics.com.au
ACETAL

PROPERTIES

- Very high mechanical properties
- High hardness and stiffness
- Excellent creep resistance
- Dimensional stability
- Excellent dialectical properties
- Low co-efficient of friction

APPLICATIONS

Precision gears, bearings with close tolerances, electrical engineering Insulators, snap fit assemblies, parts which operate in water between 60° to 90°C.

DISTRIBUTION

Available in Rod, Sheet, Tube, Tape Rolls, Machined Parts
POLYESTER PETP

PET

- Thermoplastic Polyester
- SHEET-ROD-TUBE
- Natural (White/Black)

The specific properties of this virgin PETP make it specially suitable for the manufacture of mechanical precision parts which have to sustain high loads and/or are subject to wear.

PROPERTIES

- Similar properties to Acetal.
- With improved tensile strength, dimensional stability, operating temperature and physiologically.
- Inert reduced notched impact resistance.
- Applications
- Precision gears and bearings, thrust washers
- Pump components, slideways,
- Components for mechanisms of precision, etc.
NYLON

NYLATRON GS0

- Polyamide
- PA66 + MoS2
- SHEET-ROD
- Grey/black

Material has an even better wear resistance and a lower coefficient of friction than nylon 66. Stiffness, tensile strength and temperature resistance are also improved. Nylatron® GS is ideal for dynamic bearing and wear applications.

NYLATRON GSM0

- Polyamide
- PA6G + MoS2
- SHEET-ROD
- Grey/black

This gives excellent wear resistance, self-lubrication and low friction characteristics. It is an ideal material for dynamic bearing applications, even at elevated temperatures up to 100°C. These superior mechanical properties, combined with lower moisture absorption, extend its range of uses over Nylatron®M.

NYLATRON MC9010

Has Better impact strength and fatigue resistance compared with other cast nylons in the range. It has proved an outstanding material for large gears, racks and pinions, successfully replacing phosphor bronze and cast iron in many applications.
ADVANCED MATERIALS

PSU 10000
- Polysulphone
- Natural (yellow/translucent)

PSU 1000 stock shapes are produced from non-UV-stabilized polysulphone resin. This material has a max allowable service Temperature of 180°C for short periods and can continuously be used up to 150°C.

KETRON PEEK 1000 AND PEEK HPV0
- Polyethereketone
- Natural (brownish grey/black)

KETRON PEEK is an ideal material for applications where an excellent performance under extreme conditions of temperature, chemical attack, high-energy radiation, electrical duty, etc. is required.

TECHTRON HPV PPS0
- Polyphenylene Sulphide
- Deep blue

This reinforced, internally lubricated Polyphenylene Sulphide grade offers a valuable combination properties with respect to wear resistance, load bearing capabilities and dimensional stability when exposed to chemicals and high-temperature environments.

- Cela Zole
- Polybenzimidazole (PBI)
- Black

Cela Zole parts offer a combination of properties that allows them to excel in applications requiring low wear and long life in severe environments. Max allowable service is temperature 310ºC continuously, 500ºC for short periods.
**TORLON**

**POLYAMIDE-IMIDE**

Available in three different grades 4203PAI, 4301 PAI, 5530 PAI For high temperature applications, this advanced material offers an excellent combination of mechanical performance and dimensional stability.

**PBI0**

**POLYBENZIMIDAZOLE**

PBI0 offers the highest temperature resistance and best mechanical property retention of all unfilled thermoplastics. PBI is very 'clean' in terms of ionic impurity and does not outgas (except water). These characteristics make this material extremely attractive to high-tech industries.
PTFE

TETRON

PROPERTIES

- Properties of Virgin PTFE
- Not affected by almost all chemicals and solvents
- Outstanding dielectric properties
- Capable of continuous use at 260°C
- Excellent low temperature toughness
- Slippery non-stick surface
- Excellent UV resistance
- Fillers enhance the properties
- Improved resistance to cold flow or creep
- Reduction in wear and friction
- Increase in stiffness and surface hardness
- Improved thermal conductivity and dimensional stability
- Increased electrical conductivity

APPLICATIONS

Seals, seats, packings, chevrons, piston rings, glide rings, lantern rings, and back up rings. Slide bearings, electrical and thermal insulators.
PTFE Glass Fabric

Chemfab

Chemglas-Chemstik Premium
- 1 Metre wide
- Thickness 3 thou, 5 thou, 6 thou, 10 thou
- Plain and Adhesive

Chemglas-Chemstik Industrial
- 1 Metre wide
- Thickness 3 thou, 5 thou, 6 thou, 10 thou
- Plain and Adhesive

Chemglas-Chemstik Premium Black Conductive
- 1 Metre wide
- Thickness 5 thou, 10 thou
- Plain and Adhesive (5 thou only)

Chemglas-Chemstik Rolls
- Liner or Self-wound
- Width 12.5mm 25mm 38mm 50mm 75mm and 100mm
- Other slit widths available on request
- Thickness 3 thou, 5 thou, 6 thou, 10 thou, Plain or adhesive

Ptf Fabrics
- 1 Metre wide in 4, 6, and 10 thou thickness
- Plain

Skived Pressure Sensitive Adhesive
- 1 Meter wide in 5, 10, and 20 thou thickness
- Adhesive
**POLYPROPYLENE**

**PVDF 10000**

- Polyvinylidene fluoride
- ROD-SHEET
- Natural (white)

PVDF 1000 is highly crystalline unreinforced fluoropolymer combining good mechanical, thermal and electrical properties with an excellent chemical resistance.

**PVDF STRETCH BACK**

- Available in 3mm thickness by 1500mm wide
POLYCARBONATE

PROPERTIES
• Excellent impact resistance (250 times stronger than glass)
• Very good optical properties
• Ability to be cold formed in thinner gauges
• Moderate chemical and scratch resistance
• Self-extinguishing
• Excellent acoustic properties

APPLICATIONS
• Safety and vandal resistant glazing, machine guards, sight glasses, safety visors
• Transparent instrument components, electrical components.
• Safeguard

DISTRIBUTION
• ROD-SHEET-TUBE
  • Clear
  • Premium quality UV stabilized
  • Clear, high impact engineering and glazing sheet
  • Excellent for use in safety glazing and guarding
  • Safeguard Hard Coated
  • Clear
  • Highly engineered see-through sheet with high abrasion and UV resistance

PC 1000
• Natural (clear/translucent)
• Industrial engineering grade non-optical quality and non-UV stabilised
PVC

PROPERTIES
• Excellent electrical insulating properties
• Very high chemical resistance
• Thermoformable
• Moderate impact resistance and service temperature
• Very good moisture resistance
• Good dimensional stability
• Bondable
• Self-extinguishing

APPLICATIONS
• Chemical storage vessels
• Tank liners and fittings, fume
• Cupboards, pump components, insulators.

PVC
• ROD-SHEET
• Grey
ACRYLIC

- SHEET-ROD-TUBE
- Acrylic Sheet available in clear, opal, tints and colour
- Full sheet size 2440 x 1220
- Cut panels to size available on order
- Acrylic Rod and Tube available on order
- Acrylic hinges, knobs, slides, hasps, glue etc. also available
family owned & managed business specialising in manufacturing, fabrication & welding of plastics materials, providing quality plastic creations for business homes & the community.

(02) 43 224 333
www.nimrodplastics.com.au

located on the central coast

3,3 daintree close west gosford