

# PRATLEY

# PRATLIMOLD<sup>®</sup>

**A TOUGH, VERSATILE, CASTABLE PLASTIC**



Contents 1,2 kg  
(3 Tins x 400 g each)  
Product Code 96000



PRATLIMOLD is a unique, high strength, dimensionally stable and castable plastic compound. It can be easily machined, carved, sawn and drilled. It can also be cast into very thick sections, is self-lubricating during machining and has completely isotropic mechanical properties.

## TYPICAL PROPERTIES

- Dimensionally stable
- Self-lubricating.
- Low thermal expansion co-efficient  $1,1 \times 10^{-4}/^{\circ}\text{C}$ .
- Can be sawn, filed, carved, drilled, sanded and machined at very high speeds.
- Accepts paint (after surface grease or release agent has been removed with a solvent such as thinners).
- Can be glued with Pratlley WONDAFIX.
- Good electrical insulator (dielectric strength 13 kV/mm).
- High resistance to oil, water and most common chemicals.
- Can be plated (Ornamental bronze)
- Density 1,08 g/mL.
- Gel time - 15 to 25 minutes at 25 °C.
- Will maintain its properties (strength) up to 95 °C continuous. Thereafter, properties will deteriorate up to a limiting 140 °C.
- Ultimate tensile stress 56 MPa (8100 p.s.i.).
- Elasticity modulus 1.13 GPa (164 000 p.s.i.).

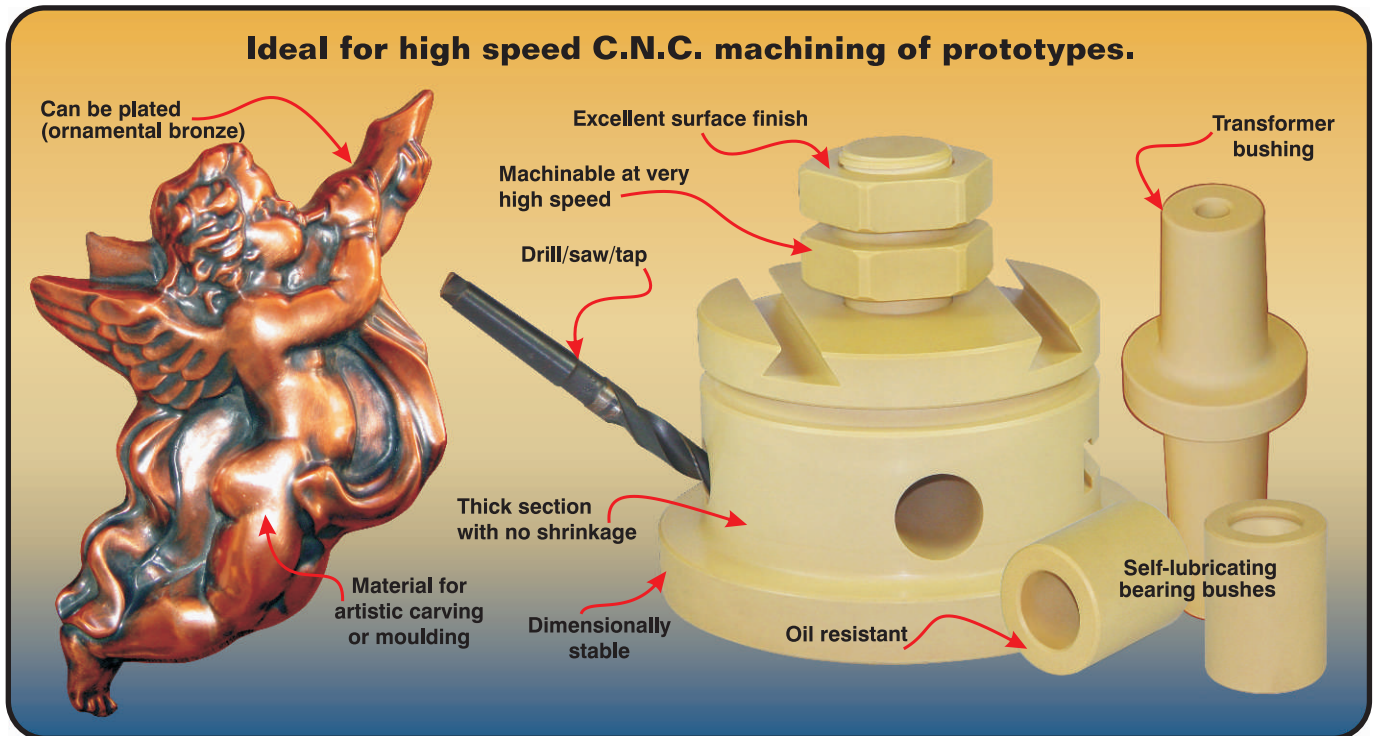
## SOME SUGGESTED USES

- Excellent as a C.N.C. machine program proving material (can be machined at very high speed to produce good surface finish with minimal tool wear).
- Perfect for models and prototypes.
- Cast rods for machining of bushes.
- Material for artistic carving.
- Mould complex shapes.
- Make foundry patterns for castings.
- Make self-lubricating bearing bushes.
- Make electrical insulators and transformer bushings.

## MACHINING

Best results are achieved using fast machining speeds and sharp tools with a generous rake angle.

### **Ideal for high speed C.N.C. machining of prototypes.**



Pratlley (Pty) Limited (Reg. No. 1996/003890/07)

Jackson Street • Fictoria • Krugersdorp • Gauteng - Telephone +27 11 955 2190/8 • Fax +27 11 955 3918  
PO Box 3055, Kenmare 1745 • Gauteng • South Africa - e-mail: sales@pratley.co.za

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

Leaflet no. 82  
13 May 2010