

nylon vacuum casting for industry



“ low tooling costs & rapid turnaround ”

Nylon PA- 6 mouldings have all the properties of injection moulded nylon polymers with the added advantages of being able to cast both thick and thin wall sections from silicone mould tools. This new process enables us to provide prototype parts in production material within days rather than weeks.

Process Applications include engine compartment parts such as, inlet manifolds, water tanks, air filter housings, radiator parts, lamp housings, clips, gears and living hinges. It is particularly suited in the development of injection mouldings, or when low volume rules out conventional tooling.

Master Patterns may be made from almost any stable non-porous material including SLA, tooling board, acrylics, waxes, cast resins etc. Little or no heat, and in most cases, no pressure is involved in mould-making. Hand finishing techniques prepare master patterns to the required level. Finishes can range from grades of spark texture, smooth matt & satin to a high gloss finish.

Material is Nylon PA 6 with three grades available, nylon PA-2000 (GF), PA-1000 and PA-700 (PP).

		PA-2000	PA-1000	PA-700
Flexural modulus	N/mm ²	1950	862	
Tensile modulus	N/mm ²	1800	850	650
Tensile strength	N/mm ²	60	42	32
Heat deflection temp	°C	195	131	76

Nylon PA 6 is light yellow in colour but can be dyed to suit customer requirements.

Our Equipment includes a MCP 5/04 Nylon vacuum casting machine with a full range of ancillary mould-making equipment.

Tolerances are typically less than 0.4% variation from master to moulding.

Mould Sizes range up to 500mm x 550mm x 550mm with shot weights up to 1.2kilos.

Process Advantages include low tooling costs, rapid turnaround (e.g. mouldings within days of receipt of masters), exceptional detail and accuracy. Flexible moulds and inserts allow significant undercuts, simplifying mould-making, which contains costs.

Client base in automotive, medical, electronic, aerospace, marine and film industry sectors.

For more information
www.cmamoldform.co.uk
or call us on
0121 333 5805



CMA Moldform Limited
B6 The Seedbed Centre
100 Avenue Road
Birmingham B7 4NT
United Kingdom

Tel: 0121 333 5805
Fax: 0121 333 6010

E: info@cmamoldform.co.uk
www.cmamoldform.co.uk

nylon vacuum casting