

# POLYMORPH

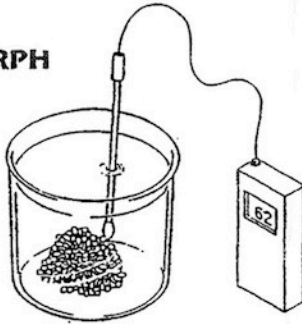
Polymorph is one of a new generation of plastics with unusual properties. It has a remarkably low fusing temperature of around 60°C. In other words, Polymorph can be reduced to a mouldable condition by immersion in hot water!

Once Polymorph has fused - and turns from opaque to clear - it can be moulded in many ways and stays workable until a much lower temperature. When fully cooled it is very similar in appearance and physical properties to nylon. If anything, it is stiffer, stronger and tougher than most plastics used in domestic products. It is a true thermoplastic and can be re-heated and remoulded any number of times.

**Warning:** Under no circumstances should Polymorph be moulded around parts of the body, risking the danger of it hardening in position.

## MOULDING POLYMORPH

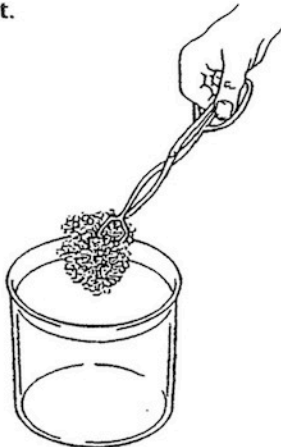
- 1) Polymorph granules are heated in a cup of hot water. Recommended temperature is about 62°C.



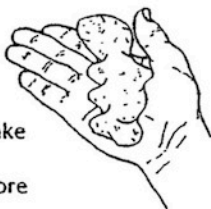
### PRECAUTION

Only heat in hot water  
- do not use direct heat.

- 2) The fused polymorph granules are carefully removed from the hot water using tongs or similar implement.



- 3) The water is squeezed out and the polymorph is ready to shape or form.



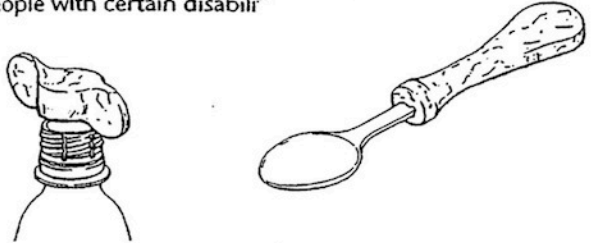
### Precaution

The water may be very hot so take extra care. If necessary, let the Polymorph cool down a bit before squeezing out the water.

## IDEAS FOR APPLICATIONS

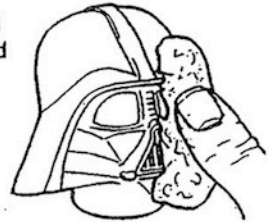
### Moulding around objects

Polymorph lends itself particularly to being moulded around other objects - e.g. to make a larger handle around a tool. This can be especially useful for people with certain disabilities.



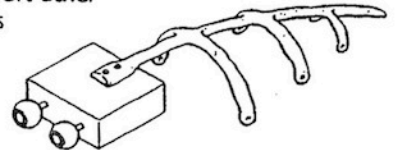
### Making moulds

Because Polymorph is easily formed around other objects, it can be used for single or multiple-part mould making - providing that it can be fully pushed into smaller surface depressions.



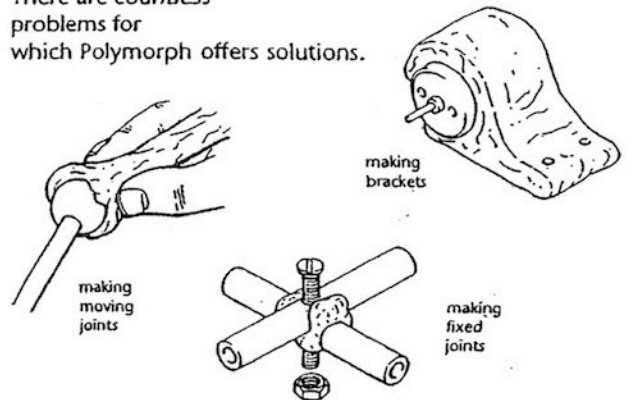
### Parts for models

E.g. Polymorph can be formed into a tough spine or "skeleton" to support other materials - perhaps as of a model puppet.



### DIY

There are countless problems for which Polymorph offers solutions.



**Note: Polymorph is a non-toxic material that is fully biodegradable.**