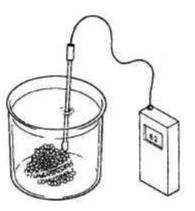
POLYMORPH

Polymorph is one of a new generation of commercial polymers set to have a major impact on Design and Technology. This polymer has all the characteristics of a tough engineering material yet it fuses and becomes easily mouldable at just 62C. It can be heated with just hot water or a hairdryer and moulded by hand to create prototypes and solve manufacturing problems currently outside the capacity of pupils and students.

Uses for Polymorph includes:

- Moulding of handles and orthopaedic aids
- Vacuum forming moulds
- Moulds for batch producing other mouldings
- Prototype mechanical parts
- Armatures / frames for models
- Inserts for compliant products
- Specialised components e.g. motor mountings
- Moulding of complete products

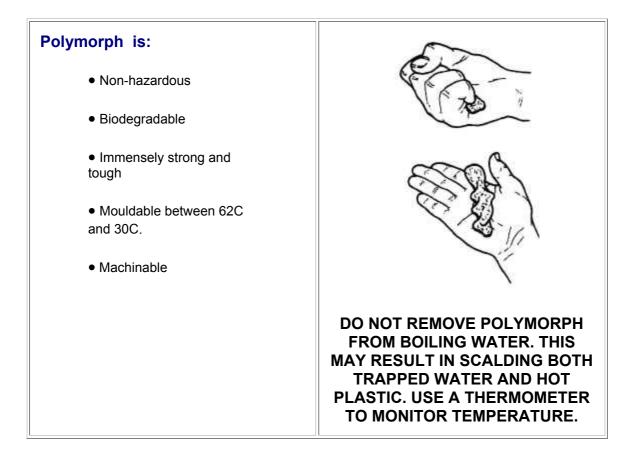
To prepare a small amount of Polymorph for moulding, place it in a cup or beaker and pour over hot water between at 62- 70 C. The Polymorph granules will change from opaque to clear and adhere together.



Carefully remove the Polymorph mass using tongs or wire hook, and then squeeze out the water when the temperature is comfortable.



The Polymorph can now be hand moulded into different shapes



1. Identification of the substance or the preparation

Product name Chemical name Synonym(s) Formula: Molecular Weight CAPA (R) 6400Polycaprolactone Oxepanone, homopolymer epsilon-caprolactone, homopolymer (C6H1002)x 25,000

2. Composition/Information on Ingredients

Oxepanone, homopolymer Cas Number 24980-41-4 Concentration >99,00%

3. Hazards Identification

Under normal use conditions considered to present minimal hazard from a human health and environmental standpoint

4. First-aid Measures

Effects:

Main effects Hazard due to contact with product at high temperature.

Inhalation. Negligible

Eye contact Mechanical irritation from the particulates generated by the product.

Skin contact Negligible

Ingestion Negligible

First -aid:

Inhalation Remove the subject from dusty environment and let him blow his nose.

Eye contact

Flush eyes with running water for several minutes, while keeping the eyelids wide open.

Skin contact In case of contact with molten polymer: cool rapidly with cold water without attempting to peel it from skin. Obtain medical treatment for burns.

Ingestion If the subject is completely conscious: negligible If unconscious: not applicable

5. Fire-fighting Measures

Common extinguishing means Power Foam, AFFF C02 Large quantities of water. Water spray.

6. Physical and Chemical Properties

Appearance:granules/ pelletsColour:whiteOdour:odourless

Change of state Freezing point: ca 35 Cel Melting point: from 58-60 cel Boiling point: (1013 mbars)

Flash point = 275 Cel Remark : Decomposition products Method : open cup

Density Specific gravity 1. 1 temperature 60 cel

Solubility Insoluble in water Soluble in Aromatic solvents Chlorinated hydrocarbons

7. Toxicological information

Comments The Compound is biodegradable and not dangerous

8. Ecological Information

Comments Product is not significantly hazardous for the environment

9. Regulatory Information

EEC Labelling Not classified according to Directive 92/32/EEC