



Dow Hyperlast

engineering polyurethane excellence

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MONOTHANE™
single component elastomers



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MONOTHANE™ Single Component Elastomers

MONOTHANE™ is a range of single component, ready formulated polyester based polyurethane elastomers, available in the hardness range SHORE A 20 - 90.

The advantages of MONOTHANE™ over conventional polyurethane elastomers are:

Single Component

Each hardness grade is pre-formulated - no mixing required.

No Degassing

As MONOTHANE™ is cured it goes through a water thin stage. It naturally degasses, which translates into bubble free castings with uniform physical properties.

Low Capital Costs

The simplicity of MONOTHANE™ means that no mixing, vacuum degassing or dispensing equipment is needed. An efficient air-circulating oven is required for meltdown at 70°C and curing at 135°C. A well-sealed mould is also vital. After meltdown the required amount is tapped off; the drum may then be resealed for use again, ensuring that waste is minimal. Nitrogen flushing is recommended but not essential provided the drums are sealed immediately after decanting and the material is not exposed to the atmosphere for prolonged periods.

Ease of Handling

MONOTHANE™ may be melted down in the container at 70°C, poured into a well-sealed pre-heated metal mould and then cured at 135°C. Simply HEAT - POUR - CURE.



MONOTHANE™ Single Component Elastomers

Applications:

MONOTHANE™ is used on a world-wide basis for the manufacture of:

- *Printing rollers*
- *Mechanical handling rollers*
- *Steel mill rollers*
- *Anti vibration mountings*
- *Textile spinners*
- *Capstan drive units*
- *Seals*
- *Gaskets*
- *Rings*
- *Isostatic press bags*

MONOTHANE™ exhibits significant durability and performance in these demanding applications when compared with rubbers and other urethane systems.

One of the major problems in manufacturing vertically cast rollers is air entrapment. This can be solved by using MONOTHANE, which undergoes a low viscosity phase early on during the cure cycle, allowing any air to escape.

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