



Product Data Sheet

HA-90

Product description

HA-90 is a urethane prepolymer for casting polyurethane elastomer use. The product is “capped” and contains a minimum of TDI monomer when reacted with **MbOCA** yields ultra high Performance polyurethane elastomer with high resiliency, low viscosity, water and low temperature resistance and lower heat buildup. It can either be processed via hand casting or a suitable dispenser.

Product applications

HA-90 is used to make rods, caster wheels, rollers, forklift truck tires, sealing rings, sieve plates and other polyurethane elastomers.

Product characteristics

NCO (%)	4, 25 ± 0, 2
Specific Gravity	1, 06
Viscosity @ 80°C	500-900
Colour	Water Clear

Processing guide

The processing conditions are indicated below. **HA-90** must be stored in a sealed container and under a blanket of nitrogen. It is advised to use all the drum within 3- 5 hours when it is opened once.

HA -90 (pph)	100
MbOCA Level (pph)	12.8
HA -90 Temperature °C	80-85
MbOCA Temperature °C	105-115
Mould Temperature °C	100
Recomended Theory %	95
Pot life / Mins	14
Demoulding Time / hrs.	< 1
Post Curing / hrs. @ 100°C	16



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Elastomer Physical Properties

Properties presented below are to be used as a guide and may differ due to processing conditions and curing level of the elastomer.

Hardness /Shore A	90±5
Tensile Strength / Mpa	33
%100 Modulus	6.5
%300 Modulus	14
Tear Strength / kN/M	70
Elongation / %	450
Compression Set (22 hr@70°C)	33
Cured Specific Gravity / g/cm ³	1.1

Handling Precautions

HA-90 should be used in well-ventilated areas. Avoid breathing in vapours and protect skin and eyes from contact.

In case of skin contact, immediately remove excess, wash with soap and water. For eye contact, immediately flush with water for at least 15 minutes. Call a physician.

If nose, throat or lungs become irritated from breathing in vapours, remove exposed person to fresh air. Call a physician.

Storage

Storage life of 6 months at normal room temperature (20-25°C) in the original sealed containers.

Packing

200 Kg drum or 25 Kg barrel.