



**PUMA
POLYMERS**

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Por-A-Thane E90T

Preliminary data

APPLICATIONS

Por-A-Thane E90T is a TDI-terminated polyether prepolymer that can be used for molding components in the 90 Shore A hardnesses range when cured with MbOCA (4,4-methylene-bis-(2-chloroaniline)). Por-A-Thane E90T is used in the manufacture of high-property solid cast polyurethane elastomers, such as forklift tires, sheet goods, wheels, rollers, and seals.

CHARACTERISTICS

Appearance	Viscous liquid at room temperature
NCO Content	4.15 +/- 0.20%
Brookfield Viscosity @ 212° F (100°C)	300 cPs
Specific Gravity @ 160°F (70°C)	1.03

PROCESSING

Curative	MbOCA
Stoichiometry	95%
Resin Processing Temperature	180°F
MbOCA Processing Temperature	230°F
Mold Temperature	212°F
Pot Life	4-5 Minutes
Initial Cure Time	60 Minutes at 212°F
Post Cure Time	16 Hours at 212°F

PROPERTIES OF CURED ELASTOMER, typical

Durometer Hardness, Shore A	90
Ultimate Tensile, PSI	5600-5800
Elongation, %	400-450%
Die C Tear, PLI	400-450
Split Tear (ASTM D470), PLI	85-95
Resilience, Bashore, %	45%
Polymer specific gravity	1.10

ATTENTION

When using any chemical, the following safety precautions must be followed:

Use only in WELL VENTILATED areas. Avoid prolonged or repeated contact with skin. Wear CHEMICALLY RESISTANT RUBBER GLOVES, RUBBER APRON and SAFETY GLASSES. If swallowed, or in the event of contact with eyes, IMMEDIATE MEDICAL ATTENTION is advised.

Read the MATERIAL SAFETY DATA SHEET.

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