



Por-A-ThaneTM

E-90TS

Por-A-Thane E-90TS is a TDI/polyether-based (PTMEG) liquid polymer which yields a 90 Shore A hardness when cured with 4,4' methylene-(ortho-chloroaniline), commonly called MBOCA.

FEATURES ARE

- Good toughness and abrasion resistance
- Excellent low temperature flexibility
- Very good dynamic properties
- High resilience
- Good resistance to heat and humidity
- Low viscosity

PREPOLYMER CHARACTERISTICS

Appearance	Viscous Liquid
NCO Content	3.95-4.35%
Viscosity at 212°F	300-600cps
Viscosity at 160°F	2000-3000cps
Specific Gravity	1.06

PROPERTIES OF CURED ELASTOMER

Curative	MBOCA
Durometer hardness, Shore A	90
Modulus, PSI	
100%	1100 (7.6)
300%	2200 (15.2)
Ultimate Tensile, PSI	5500 (37.9)
Elongation, %	430%
Tear Die C, PLI	600 (105)
Resilience, Bashore, %	42%
Compression Set, Method B	30%
22 hrs./158°F (70°C)	



PROCESSING

Curative	MBOCA
Processing Temperature	212°F (100°C)
Pot Life	10 minutes
Demold Time	1 hour @ 212°F (100°C)
Post Cure Time/ Temperature	16 hours @ 212°F (100°C)

APPLICATIONS

This elastomer is suited for many applications including: solid tires, mechanical goods, fabric, belts, rolls, sporting goods and other protective coatings.

ATTENTION

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

Use only in WELL VENTILATED areas. Avoid 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 MATERIAL SAFETY DATA SHEET.