



PUMA  
POLYMERS

PRODUCT BULLETIN

# Por-A-Thane<sup>TM</sup>

## E-83T

**Por-A-Thane E-83T** is a TDI/polyether-based (PTMEG) liquid polymer which yields a 83 Shore A hardness when cured with 4,4' methylene-(ortho-chloroaniline), commonly called MBOCA.

### FEATURES

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

### PREPOLYMER CHARACTERISTICS

Appearance @ RT	Waxy-solid, or pale straw liquid
NCO Content	3.1 – 3.4%
Viscosity @ 60°C	4000cp
Density, g/cm <sup>3</sup> @ 77°F	1.05

### PROPERTIES OF CURED ELASTOMER

Curative	MBOCA
Durometer hardness, Shore A	83
Ultimate Tensile, PSI	4275
Elongation, %	500%
Tear Strength, Die C, kN/m (pli)	63 (360)
Tear Strength, Split C, kN/m (pli)	7.2 (41)
Resilience, Bashore, %	53%

### PROCESSING

Curative	MBOCA
Mold Temperature	212°F (100°C)
Pot Life	5 min @ 230°F (110°C)
Demold Time	1 hour @ 212°F (100°C)
Post Cure Time/ Temperature	16 hours @ 158°F (70°C)

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## **APPLICATIONS**

This elastomer is suited for many applications including: 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.**

Note: The above information was generated using laboratory prepared specimens and is not intended for specification purposes. Please contact PUMA Polymers to obtain specification information.