



Por-A-ThaneTM

A90TS

DESCRIPTION

Por-A-Thane A90TS prepolymer is a polyester-based TDI terminated prepolymer which yields a 90 Shore A hardness when cured with 4,4'-methylenebis-(ortho-chloroaniline), commonly called MBOCA.

TYPICAL APPLICATIONS

Diaphragms, dust boots, and bushings, pattern and tooling applications, rotor blades for handling slurries, mechanical gears and tools, rollers and industrial wheels, seals, gaskets, "O" rings, abrasion resistant coatings, shock and sound absorbent components, impact wear pads, pipe and vessel linings.

PHYSICAL CHARACTERISTICS

Por-A-Thane A90TS prepolymer when cured with 4,4' methylene-bis (ortho-chloroaniline) exhibits:

- High modulus and tensile
- Low coefficient of friction
- Excellent machining properties
- High heat-distortion temperature
- Excellent humidity resistance
- Excellent impact strength

PREPOLYMER PHYSICAL PROPERTIES

Appearance	Clear, light yellow viscous liquid
NCO Content, %	4.1-4.5
Viscosity @ 160°F/71°C	2140 cps
Specific Gravity @ 75°F/24°C	1.12
Specific Gravity @ 200°F/93°C	1.07

PERFORMANCE PROPERTIES

Curative MBOCA	(95% Stoichiometry)
Durometer Hardness, Shore A	90
Ultimate Tensile, PSI/Mpa	7244/49.9
Elongation, %	558
Die C Tear, pli	554
Split tear, D-470, pli	148
Resilience, Bashore, %	38



PROCESSING

Curative	MBOCA
Gel Time, min	8-9
Demold Time, min	20
Post Cure Time, hrs @ 212°F/100°C	16
Mixing Temperature	212°F/100°C

Please note the information contained in this bulletin is a reference only and not meant as a specification. Please contact the technical service department at PUMA Polymers to obtain material specifications.

SAFETY

Use only in well ventilated areas. Avoid contact with skin. Wear chemical resistant gloves and proper safety equipment. If swallowed, call physician immediately. For eye contact, flush with water for 15 minutes and get medical attention. Refer to Material Safety Data Sheet for details.

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