



Por-A-ThaneTM

A80TS

DESCRIPTION

Por-A-Thane A80TS prepolymer is a polyester-based TDI terminated prepolymer which yields a 80 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 A80TS 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, %	2.9-3.3
Viscosity @ 160°F/71°C	3800 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	80
Ultimate Tensile, PSI/Mpa	600
Elongation, %	500
Die C Tear, pli	415
Split tear, D-470, pli	100
Resilience, Bashore, %	35



PROCESSING

Curative	MBOCA
Gel Time, min	14-15
Demold Time, min	45
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.

The conditions for your use and application of our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis at least must include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by PUMA Polymers. All information is given without warranty or guarantee. It is expressly understood and agreed that customer assumes and hereby expressly releases PUMA Polymers from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorized and shall not bind PUMA Polymers. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent. Por-A-Thane A80TS®PUMA Polymers,