



PRODUCT BULLETIN

Por-A-ThaneTM

E70DTS

Por-A-Thane E-70DTS- is a polyether-based TDI terminated prepolymer which yields a 75 Shore D hardness when cured with 4,4'-methylenebis-(ortho-chloroaniline).

CHARACTERISTICS- low viscosity and when cured with 4,4' methylene-bis (ortho-chloroaniline) has:

- Very high modulus and tensile
- Low coefficient of friction
- Good machinability
- High heat – distortion temperature
- Excellent humidity resistance
- Good impact strength

PREPOLYMER CHARACTERISTICS

| | |
|---------------------------------|----------------------|
| Appearance | Clear Viscous Liquid |
| NCO Content | 9.45 |
| Viscosity at 70° C | 700cps |
| Viscosity at 36° C | 6500cps |
| Specific Gravity @ 75° F (24°C) | 1.12 |
| Specific Gravity @ 200°F (93°C) | 1.07 |

PROPERTIES OF CURED ELASTOMER

| | |
|-----------------------------|-------|
| Curative | MBOCA |
| Durometer Hardness, Shore D | 75 |



PROCESSING

| | |
|-------------------------------|--------------------------------|
| Curative | MBOCA |
| Processing Temperature/MBOCA | 160°F(70°C)/212°F(100°C) |
| Mix ratio (Prepolymer: MBOCA) | 100 : 28.4 (95% Stoichiometry) |
| Pot Life | 90 Seconds |
| Post Cure Time/ | 16 Hours |
| Temperature | 121°-230°F (100°-110°C) |

To maximum pot life, Por-A-Thane E-70DTS should run at 130°F (52°C) and at 90% theory. These conditions also minimize shrinkage. Post curing at 212°-230°F (100°-110°C) alleviates glassiness.

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.

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.