

**IMUTHANE**
CASTABLE POLYURETHANE
ELASTOMERS
47-86A**IMUTHANE**
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IMUTHANE 47-86A is a MDI / POLYCAPROLACTONE based prepolymer which yields an 88 Shore-A elastomer when cured with 1, 4 butanediol (BDO).

Typical Prepolymer Properties

| | |
|-------------------------------------|-----------|
| % NCO | 6.8 – 7.2 |
| Brookfield Viscosity @ 100° C | 3.5 – 7.0 |
| Specific Gravity @ 77° F (25° C) | 1.15 |
| @ 212° F (100° C) | 1.13 |

Typical Process Conditions

| | |
|--------------------------|----------------|
| IMUTHANE 47-86A, °F (°C) | 200 (93) |
| BDO, °F (°C) | 77 (25) |
| Mold, °F (°C) | 240 (115) |
| % Theory | 95 |
| Pot Life, min | 5 |
| Cure Time, min @ °F (°C) | 60 @ 240 (115) |
| Post Cure, hrs @ °F (°C) | 4 @ 240 (115) |

Typical Physical Properties

| | |
|--|-------------|
| Shore Hardness | 88A |
| 100% Modulus, psi (MPa) | 950 (6.5) |
| 300% Modulus, psi (MPa) | 1950 (13.4) |
| Tensile, psi (MPa) | 6650 (45.8) |
| Elongation, % | 475 |
| Tear Strength, Die C, pli (kN/m) | 500 (87.6) |
| Tear Strength, (D470), pli (kN/m) | 90 (15.8) |
| Bashore Rebound, % | 55 |
| Compression Set, Method B, 22 hrs @ 158°F (70°C), % | 30 |
| Specific Gravity | 1.14 |

The data contained herein are believed to be reliable. However, there is no guarantee that the same results will be obtained under different conditions. Fit for use testing should be conducted by each user.