

**IMUTHANE**
CASTABLE POLYURETHANE
ELASTOMERS
47-90A**IMUTHANE**
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IMUTHANE 47-90A is a MDI / POLYCAPROLACTONE based prepolymer which yields an 90 Shore-A elastomer when cured with 1, 4 butanediol (BDO).

Typical Prepolymer Properties

% NCO	7.7 – 8.1
Brookfield Viscosity @ 100° C	3.0 – 8.0
Specific Gravity @ 77° F (25° C)	1.16
@ 212° F (100° C)	1.13

Typical Process Conditions

IMUTHANE 47-90A, °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	90A
100% Modulus, psi (MPa)	1200 (8.3)
300% Modulus, psi (MPa)	2450 (16.9)
Tensile, psi (MPa)	6000 (41.4)
Elongation, %	475
Tear Strength, Die C, pli (kN/m)	500 (87.6)
Tear Strength, (D470), pli (kN/m)	140 (24.5)
Bashore Rebound, %	48
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.