

**IMUTHANE**
CASTABLE POLYURETHANE
ELASTOMERS
57-89A**IMUTHANE**
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IMUTHANE 57-89A is a MDI / succinate ester based prepolymer which yields an 89 Shore-A elastomer when cured with 1, 4 butanediol (BDO).

Typical Prepolymer Properties

% NCO	6.6 – 7.0
Brookfield Viscosity @ 100° C	13.0 – 16.5

Typical Process Conditions

IMUTHANE 57-89A, °F (°C)	210 (99)
BDO, °F (°C)	77 (25)
Mold, °F (°C)	240 (115)
% Theory	95
Pot Life, min	4
Cure Time, min @ °F (°C)	60 @ 240 (115)
Post Cure, hrs @ °F (°C)	16 @ 240 (115)

Typical Physical Properties

Shore Hardness	89A
100% Modulus, psi (MPa)	1000 (6.9)
300% Modulus, psi (MPa)	1750 (12.1)
Tensile, psi (MPa)	4200 (29.0)
Elongation, %	600
Tear Strength, Die C, pli (kN/m)	400 (70.0)
Tear Strength, (D470), pli (kN/m)	130 (22.8)
Bashore Rebound, %	
Compression Set, Method B, 22 hrs @ 158°F (70°C), %	38
Specific Gravity	

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.