

**IMUTHANE**  
CASTABLE POLYURETHANE  
ELASTOMERS  
**42-60A****IMUTHANE**  
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IMUTHANE 42-60A is a TDI / POLYCAPROLACTONE based prepolymer which yields a 60 Shore-A elastomer when cured with 4, 4, methylene bis ortho chloroaniline (MBOCA)

**Typical Prepolymer Properties**

% NCO	3.1 – 3.5
Brookfield Viscosity @ 100° C	5.0 – 11.0
Specific Gravity @ 77° F (25° C)	1.13
@ 212° F (100° C)	1.11

**Typical Process Conditions**

IMUTHANE 42-60A, °F (°C)	212 (100)
MBOCA, °F (°C)	240 (115)
Mold, °F (°C)	240 (115)
% Theory	95
Pot Life, min	9
Cure Time, min @ °F (°C)	60 @ 240 (115)
Post Cure, hrs @ °F (°C)	4 @ 240 (115)

**Typical Physical Properties**

Shore Hardness	60A
100% Modulus, psi (MPa)	250 (1.7)
300% Modulus, psi (MPa)	350 (2.4)
Tensile, psi (MPa)	3250 (22.4)
Elongation, %	600
Tear Strength, Die C, pli (kN/m)	150 (26.2)
Tear Strength, (D470), pli (kN/m)	35 (6.1)
Bashore Rebound, %	30
Compression Set, Method B, 22 hrs @ 158°F (70°C), %	10
Specific Gravity	1.16

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.

