

**IMUTHANE**  
CASTABLE POLYURETHANE  
ELASTOMERS  
**12-70A****IMUTHANE**  
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IMUTHANE 12-70A is a TDI / POLYESTER based prepolymer which yields an 72 Shore-A elastomer when cured with 4, 4' methylene bis ortho chloroaniline (MBOCA).

**Typical Prepolymer Properties**

% NCO	2.3 – 2.7
Brookfield Viscosity @ 100° C	8.0 – 12.0
Specific Gravity @212° F (100° C)	1.15

**Typical Process Conditions**

IMUTHANE 12-70A, °F (°C)	212 (100)
MBOCA, °F (°C)	240 (115)
Mold, °F (°C)	212 (100)
% Theory	90
Pot Life, min	9
Cure Time, min @ °F (°C)	60 @ 212 (100)
Post Cure, hrs @ °F (°C)	16 @ 212 (100)

**Typical Physical Properties**

Shore Hardness	72A
100% Modulus, psi (MPa)	400 (2.8)
300% Modulus, psi (MPa)	500 (3.4)
Tensile, psi (MPa)	5400 (37.2)
Elongation, %	750
Tear Strength, Die C, pli (kN/m)	275 (48.1)
Tear Strength, (D470), pli (kN/m)	80 (14.0)
Bashore Rebound, %	40
Compression Set, Method B, 22 hrs @ 158°F (70°C), %	35
Specific Gravity	1.23

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.