

**IMUTHANE**
CASTABLE POLYURETHANE
ELASTOMERS
51-75D**IMUTHANE**
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IMUTHANE 51-75D is a H12MDI / PTMG based prepolymer which yields a 75 Shore-D elastomer when cured with Ethacure 100 (DETDA).

Typical Prepolymer Properties

% NCO	7.3 – 7.7
Brookfield Viscosity @ 100° C	8.0 – 12.0
Specific Gravity @ 77° F (25° C)	1.05
@ 212° F (100° C)	1.02

Typical Process Conditions

IMUTHANE 51-75D °F (°C)	212 (100)
DETDA, °F (°C)	77 (40)
Mold, °F (°C)	212 (100)
% Theory	95
Pot Life, min	1.5
Cure Time, min @ °F (°C)	60 @ 212 (100)
Post Cure, hrs @ °F (°C)	12 @ 212 (100)

Typical Physical Properties

Shore Hardness	75D
100% Modulus, psi (MPa)	4200 (29.0)
300% Modulus, psi (MPa)	-
Tensile, psi (MPa)	7000 (48.2)
Elongation, %	200
Tear Strength, Die C, pli (kN/m)	600 (105.0)
Tear Strength, (D470), pli (kN/m)	100 (17.5)
Bashore Rebound, %	63
Compression Set, Method B, 22 hrs @ 158°F (70°C), %	-
Specific Gravity	1.09

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.