

**IMUTHANE**
CASTABLE POLYURETHANE
ELASTOMERS
18-96A

Provisional Data Sheet

IMUTHANE
18-96A

IMUTHANE 18-96A is a MDI/ ESTER based prepolymer which yields a 95 Shore-A elastomer when cured with GR45.

Typical Prepolymer Properties

| | |
|--------------------------------------|-----------|
| % NCO | 8.3 – 8.7 |
| Brookfield Viscosity @ 85° C | 3.0 – 7.0 |
| Specific Gravity @212° F (100° C) | 1.15 |

Typical Process Conditions

| | |
|--------------------------|--------------------------|
| IMUTHANE 18-96A °F (°C) | 175 - 195 (80-90) |
| GR45, °F (°C) | 105 - 125 (40-50) |
| Mold, °F (°C) | 195 - 230 (90-110) |
| % Theory | 95 |
| Pot Life, min | 5-8 |
| Cure Time, min @ °F (°C) | 60 @ 212 - 230 (100-110) |
| Post Cure, hrs @ °F (°C) | 24 @ 212 - 230 (100-110) |

Typical Physical Properties

| | |
|----------------------------------|-------------|
| Shore Hardness | 95A |
| 100% Modulus, psi (MPa) | 2730 (18.8) |
| 300% Modulus, psi (MPa) | 3772 (26) |
| Tensile, psi (MPa) | 7600 (52) |
| Elongation, % | 480 |
| Tear Strength, Die C, pli (kN/m) | 503 (88) |
| Bashore Rebound, % | 48 |
| Abrasion mm ³ | 38 |
| 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.