

Tool-A-Thane UT-15

Polyurethane

Urethane Tooling & Engineering Corp

Message:

15% Deflection for optimum life

Hardness 95 Shore A

Best tear strength and cut resistance

High loadbearing capacity

Definition with less penetration

Generally used for forming heavier and tougher metals.

| General Information | | | |
|--|--------------------|-------------------|-------------|
| Features | Good Tear Strength | | |
| Uses | Molds/Dies/Tools | | |
| Physical | Nominal Value | Unit | |
| Specific Gravity | 1.07 | g/cm ³ | |
| Molding Shrinkage - Flow | 1.7 | % | |
| Hardness | Nominal Value | Unit | |
| Durometer Hardness | | | |
| Shore A | 95 | | |
| Shore D | 48 | | |
| Mechanical | Nominal Value | Unit | Test Method |
| Coefficient of Friction ¹ (vs. Steel - Dynamic) | 0.50 | | |
| Abrasion Resistance - NBS Index | 275 | | |
| Graves Tear | 122.6 | kN/m | |
| Bayshore Resistance - NBS Index | 47.0 | | |
| Penetration Depth - Recommended for optimum life | 15 | % | |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | |
| 100% Strain | 12.1 | MPa | |
| 300% Strain | 25.3 | MPa | |
| Tensile Strength | 42.7 | MPa | |
| Tensile Elongation (Break) | 390 | % | |
| Tear Strength (Split) | 17 | kN/m | ASTM D470 |
| Compression Set ² (70°C, 22 hr) | 36 | % | |
| Thermal | Nominal Value | Unit | |
| Brittleness Temperature | -67.8 | °C | |

NOTE

1. at 20 lbs load at 52 fpm
2. Method B

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