

# Andur M-11 (94% 1,4BD, 6% TMP)

Polyurethane (Polyester, MDI)  
Anderson Development Company

Message:

Andur M-11 is an MDI-Ester prepolymer that, when processed with close attention to handling procedures and formulation, produces high quality elastomers. These elastomers perform very well in dynamic applications.

| General Information        |               |             |             |
|----------------------------|---------------|-------------|-------------|
| Forms                      | Liquid        |             |             |
| Hardness                   | Nominal Value | Test Method |             |
| Durometer Hardness         |               | ASTM D2240  |             |
| Shaw A                     | 92            | ASTM D2240  |             |
| Shaw D                     | 42            | ASTM D2240  |             |
| Mechanical                 | Nominal Value | Unit        | Test Method |
| Compressive Strength       |               |             | ASTM D695   |
| 2% strain                  | 0.689         | MPa         | ASTM D695   |
| 5% strain                  | 1.72          | MPa         | ASTM D695   |
| 10% strain                 | 3.45          | MPa         | ASTM D695   |
| 15% strain                 | 4.83          | MPa         | ASTM D695   |
| 20% strain                 | 6.21          | MPa         | ASTM D695   |
| 25% strain                 | 7.93          | MPa         | ASTM D695   |
| 50% strain                 | 29.0          | MPa         | ASTM D695   |
| Taber Abrasion Resistance  | 50.3          | mg          | ASTM D1044  |
| Elastomers                 | Nominal Value | Unit        | Test Method |
| Tensile Stress             |               |             | ASTM D412   |
| 100% strain                | 7.93          | MPa         | ASTM D412   |
| 200% strain                | 17.2          | MPa         | ASTM D412   |
| 300% strain                | 27.6          | MPa         | ASTM D412   |
| Tensile Strength (Yield)   | 42.1          | MPa         | ASTM D412   |
| Tensile Elongation (Break) | 410           | %           | ASTM D412   |
| Compression Set            | 30            | %           | ASTM D395   |
| Bayshore Resilience        | 28            | %           | ASTM D2632  |
| Thermoset                  | Nominal Value | Unit        |             |
| Pot Life                   | 6.0 - 8.0     | min         |             |
| Demold Time                | 35            | min         |             |
| Additional Information     |               |             |             |

Die C Tear, ASTM D1004: 660 pliAverage Split Tear, ASTM D1938: 235 pliStoichiometry Curative Level: 95%NBS Abrasion: 220% Rubber StandardParts of curative per 100 parts Andur M-11, 8.9% NCO: 9.08 parts by weightParts of curative per 100 parts Andur M-11, 9% NCO: 9.18 parts by weightParts of curative per 100 parts Andur M-11, 9.1% NCO: 9.28 parts by weightParts of curative per 100 parts Andur M-11, 9.2% NCO: 9.39 parts by weightMix Temperature:  
Andur M-11: 176-194°F  
Curative 1,4BD/TMP: 77-158°F  
Stability:  
Ambient Temperature, 25°C: 6 Months  
Melting Temperature, 60°C: 1 Month  
Processing Temperature, 90°C: 12 Hours  
Processing Temperature, 105°C: 3 Hours

| Injection        | Nominal Value | Unit |
|------------------|---------------|------|
| Mold Temperature | 90.0 - 120    | °C   |

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