



65 Shore A Millathane® HT Compound

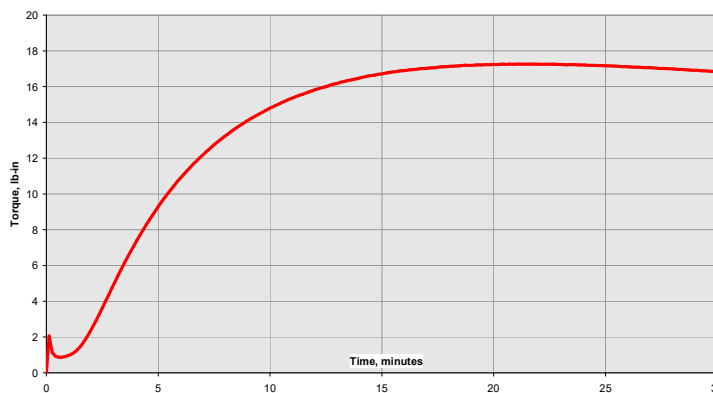
This compound has excellent compression set, retention of physical properties after oven agings at 100°C and 125°C, and after ASTM 903 Oil aging.

| | XP-3411D |
|----------------|-----------------|
| Millathane® HT | 100.00 |
| Stearic Acid | 0.25 |
| N-330 Black | 20.00 |
| DiCup 40C | 1.00 |
| Total | 121.25 |

Rheometer, 30'/160° C

| | |
|-----------------|-------------|
| ML, lb-in (dNm) | 0.9 (1.0) |
| MH, lb-in (dNm) | 17.3 (19.5) |
| ts1, min | 1.8 |
| t50, min | 4.9 |
| t90, min. | 11.6 |

Millathane® HT Compound XP-3411-D
MDR 30'/160°C, 0.5° arc



Press Cure 12 min./160°C

| | |
|--|-------------|
| Hardness, Shore A | 65 |
| 100% Modulus, psi (MPa) | 470 (3.2) |
| 200% Modulus, psi (MPa) | 1690 (11.7) |
| Tensile Strength, psi (MPa) | 2480 (17.1) |
| Elongation, % | 234 |
| Tear, Die C, lb/in (kN/m) | 92 (16.1) |
| Bashore Resilience, % | 23 |
| DIN Abrasion, mm³ Loss | 103 |
| Compression Set 22hr/100° C | 18 |



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Oven Aged 70 hr/100° C

| | |
|-----------------------------|-------------|
| Hardness, Shore A | 68 |
| Change | +3 |
| 100% Modulus, psi (MPa) | 185 (1.3) |
| 200% Modulus, psi (MPa) | 290 (2.0) |
| 300% Modulus, psi (MPa) | 660 (4.6) |
| Tensile Strength, psi (MPa) | 3485 (24.0) |
| % Change | +41 |
| Elongation, % | 520 |
| % Change | +122 |
| Tear, Die C, lb/in (kN/m) | 140 (25) |
| % Change | +52 |

Oven Aged 70 hr/125° C

| | |
|-----------------------------|-------------|
| Hardness, Shore A | 67 |
| Change | +2 |
| 100% Modulus, psi (MPa) | 565 (3.9) |
| 200% Modulus, psi (MPa) | 2375 (16.4) |
| Tensile Strength, psi (MPa) | 2495 (17.2) |
| % Change | +1 |
| Elongation, % | 200 |
| % Change | -15 |
| Tear, Die C, lb/in (kN/m) | 120 (21.0) |
| % Change | +30 |

Oil Aging, ASTM 903 Oil, 70 hr/100° C

| | |
|-----------------------------|-------------|
| Hardness, Shore A | 60 |
| Change | -5 |
| 100% Modulus, psi (MPa) | 475 (3.3) |
| % Change | +1 |
| Tensile Strength, psi (MPa) | 1830 (12.6) |
| % Change | -26 |
| Elongation, % | 195 |
| % Change | -17 |

Ref: XP-3411
R2_October 2020