



ANNUAL LABORATORY TEST REPORT

COMPOUND: Sevrene® 2000-60A
COLOR: All Colors
SPECIFICATION: MS-DC242, CPN 4170

ANNUAL REPORT DATE: 4/27/17
ORIGINAL LABORATORY REPORT DATE: 1/8/01
PAGE: Page 1 of 3

DATA REPRESENTS ACTUAL LABORATORY TESTS AND REMAINS CURRENT FOR ONE YEAR

| Test Freq. | Test Method | Spec. Range | Results |
|------------|--|------------------|-----------|
| A | Specific Gravity, ISO 1183 | 1.17 – 1.19 | 1.19 |
| A | Hardness, Shore A, 15 sec. delay, ISO 868 | 53 - 66 | 56 |
| A | Tensile Strength, MPa min., ISO 37 Perpendicular to flow | 4.5 – 7.4 MPa | 6.2 MPa |
| A | Tensile Modulus, 100%, MPa min., ISO 37 Perpendicular to flow | 0.9 – 3.0 MPa | 1.6 MPa |
| A | % Elongation at break, min., ISO 37 Perpendicular to flow | 314 – 1068% | 702% |
| A | Tear Strength, kN/m min., ISO 34 Perpendicular to flow | 22.4 – 30.7 kN/m | 24.1 kN/m |
| A | Compression Set, ISO 815, 22 h @ 70°C, % max. | 10.5 – 28.1% | 24.0% |
| | Properties after Heat Aging, ASTM D412 70 h @ 125°C | | |
| | Change in Hardness | ± 15 | -2 |
| | % Change in Tensile Strength | | |
| | Perpendicular to flow | ± -30.0% max. | +9.5% |
| | Parallel to flow | ± -30.0% max. | + 0.0% |

* Test is outside our scope of accreditation.

A = Vi-Chem tests annually.

** This test was performed by a subcontracted accredited testing laboratory.

All other tests are performed once at the time of the original lab report date.

*** This test was performed at supplier's biological laboratory.

This report is not to be reproduced except in full.

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Additional information about testing may be found in the accreditation section on our website at www.vichem.com

VI-Chem Corporation, 55 Cottage Grove, SW, Grand Rapids, MI 49507 Office (616) 247-8501 or (800) 477-8501, Fax (616) 247-8703



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| | % Change in Ultimate Elongation | | |
| | Perpendicular to flow | ± -50% max. | +11.6% |
| | Parallel to flow | ± -50% max. | +0.2% |
| | Properties after Heat Aging, ASTM D412 1008 h @ 80°C | | |
| | Change in Hardness, pts. max. | ± 15 | +4 |
| | % Change in Tensile Strength | | |
| | Perpendicular to flow | ± -30% max. | +9.0% |
| | Parallel to flow | ± -30% max. | -4.7% |
| | % Change in Ultimate Elongation | | |
| | Perpendicular to flow | ± -50% max. | +0.2% |
| | Parallel to flow | ± -50% max. | -19.0% |
| | Compression Set, max., ASTM D395 Method B, 70 h @ 100°C | 50% | 37.9% |
| | Ozone Resistance, ASTM D518 100 h @ 38°C*, ** | Pass | Pass |
| | Fluid Resistance, Aqueous, ASTM D471 Equal parts of distilled water and Ethylene glycol, 70 h @ 70°C | | |
| | % Volume Change | -5 to 10% | 1.9% |
| | Fluid Resistance, ASTM D471 IRM903 Oil, 168 h @ 70°C | | |
| | % Volume Change | -10 to 40 | 13% |
| | Low Temperature Resistance ASTM D1053, Method A*, ** | -40°C | -49°C |
| | UV Resistance, SAE J1885, Interior Xenon Arc 1240 kJ/m ² *, ** | ΔE = 3 max. | ΔE = 1.27 (Black) |

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| | Weatherability, SAE J1960, Exterior Xenon Arc 2500 kJ/m ² | $\Delta E = 3$ max. | $\Delta E = 0.78$ (Black) |
| | Compression Set, max., ASTM D395 Method B, 1008 h @ 80°C | 45% max. | 26.3% |
| | Fogging Number, SAE J1756, 6 hrs., 85/38°C, 16 hr. reading | 70% min. | 83% |
| | Weathering Resistance, SAE J1976 2 years Florida *, ** | | |
| | Color Change | $\Delta E = 3$ max. | $\Delta E = 1.96$ |
| | Surface Defects | No objectionable defects | Pass (Black) |
| | 2 years Arizona, *, ** | | |
| | Color Change | $\Delta E = 3$ max. | $\Delta E = 1.05$ |
| | Surface Defects | No objectionable defects | Pass (Black) |
| A | Flammability, ISO 3795 | 100mm/min. max. | 49 mm/min. |

Approved by: 
Edward Park, Ph.D., R&D Manager

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