



ANNUAL LABORATORY TEST REPORT

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

ANNUAL REPORT DATE: 4/27/16
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	1.18
A	Hardness, Shore A, 15 sec. delay, ISO 868	53 - 66	60
A	Tensile Strength, MPa min., ISO 37 Perpendicular to flow	4.5 – 7.4 MPa	7.1 MPa
A	Tensile Modulus, 100%, MPa min., ISO 37 Perpendicular to flow	0.9 – 3.0 MPa	1.7 MPa
A	% Elongation at break, min., ISO 37 Perpendicular to flow	314 – 1068%	620%
A	Tear Strength, kN/m min., ISO 34 Perpendicular to flow	22.4 – 30.7 kN/m	25.0 kN/m
A	Compression Set, ISO 815, 22 h @ 70°C, % max.	10.5 – 28.1%	21.9%
	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.

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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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Test Freq.	Test Method	Spec. Range	Results
	% 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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Test Freq.	Test Method	Spec. Range	Results
	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.	49.9 mm/min.

Approved by: 
Richard Rabe, Ph.D., R&D Manager

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