



APPLE RUBBER PRODUCTS INC.

310 Erie Street Phone: (716) 684-6560
Lancaster, NY 14086 Fax: (716) 684-8302
1-800-828-7745

Laboratory Test Report

Compound: 14SL7ML

Description: VMQ, 70 Shore A, Red/Brown

Test Samples: Test Slabs

Temperature Range: -65°C to + 200°C (-85°F to +400°F)

Recommend For: Ozone, Weather Resistance, Dry Heat, Low Temperature, Some Petroleum Oils

Not Recommend For: Low Abrasion and Tear resistance, Ketones, Silicone Oils

Agency Status: UL Listed File JMLU2.MH14216

End Use: UL 50, UL 50E, Dry-Cleaning and Dishwashing Detergents, Atmospheric and
Generated Ozone

Standard Test Specification: ASTM D2000 M7GE705A19B37EO36F19G11

Original Physical Properties

| | Requirement | Test Results |
|--|--------------------|---------------------|
| Durometer (ASTM D2240), Shore A, Pts. | 70 ± 5 | 71 |
| Tensile (ASTM D412), MPa, min | 5 | 9.1 |
| Elongation (ASTM D412), %, min | 150 | 379 |
| Tear Resistance Die B (ASTM D624), kN/m, min | 9 | 20.8 |

Heat Resistance (ASTM D573) 70 hours @ 225°C

| | | |
|---|-----|-----|
| Hardness Change from Original Test Results, Pts., max | +10 | +1 |
| Tensile Change from Original Test Results, %, max | -25 | -24 |
| Elongation Change from Original Test Results, %, max | -30 | -8 |

Compression Set (ASTM D395), 22 hours @ 175°C

| | | |
|---------------------|-----|-----|
| Compression, %, max | +30 | +14 |
|---------------------|-----|-----|



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Fluid Resistance (ASTM D471), 70 hours @ 150°C in IRM 901

| | | |
|--|----------|-----|
| Hardness Change from Original Test Results, Pts. | -15 to 0 | -1 |
| Tensile Change from Original Test Results, %, max | -20 | -5 |
| Elongation Change from Original Test Results, %, max | -20 | -16 |
| Volume Swell, % | 0 to +15 | +5 |

Fluid Resistance (ASTM D471), 70 hours @ 150°C in IRM 903

| | | |
|--|-----|-----|
| Hardness Change from Original Test Results, Pts. | -40 | -20 |
| Volume Swell, % | +60 | +39 |

Low Temperature Resistance

| | | |
|---|------------|------------|
| Brittleness Point (ASTM D2137), 3 min @ -55°C | Nonbrittle | Nonbrittle |
|---|------------|------------|

Outgas Testing (ASTM E595), 24 hours @ 125°C in 5 x 10⁻⁵ Torr Vacuum

| | | |
|---------|-------|------|
| TML, % | < 1 | 0.33 |
| CVCM, % | < 0.1 | 0.05 |

Date: April 4, 2013

Signature: *John A. Tranquill*