



EUROPE SEALS BV

Test Report

Material: **EP70 Peroxide Cured Black with EN 681-1 NSF61 & WRC & ACS & KTW
W 270 U.L 157 Certified with conforming to FDA**

Compound No. **EP701253C**

Specification: M4CA710 A25 B35 EA14 F17 Z1= Elongation 125% MIN

| <u>Original Properties:</u> | <u>Required</u> | <u>Result</u> |
|---|-----------------|---------------|
| Hardness, Shore A, pts | 70±5 | 75 |
| Tensile Strength, psi, min | 1450 | 2328 |
| Elongation, min, % (Z1) | 125 | 190 |
| Tear Resistance, ASTM D624 (Die C), kgf/cm | | 29 |
| Modulus at 100%, ASTM D412, psi | | 801 |
| Specific Gravity | | 1.126 |
| A25 <u>Heat Aged: 70 h at 125C, ASTM D573</u> | | |
| Hardness Change, pts, | +10 | 0 |
| Tensile Strength Change, % | -20 | 0 |
| Elongation Change, % | -40 | -7 |
| Volume Change, % | | -0.8 |
| A <u>Heat Aged: 70 h at 150C, ASTM D573</u> | | |
| Hardness Change, pts | | +1 |
| Tensile Strength Change, % | | -18 |
| Elongation Change, % | | -18 |
| Volume Change, % | | 0 |
| B35 Compression Set, 22 h at 125C, ASTM D395 Method B, Deflection, Max % (Button) | 70 | 13 |
| Compression Set, 22 h at 150C, ASTM D395 Method B, % (Slab) | | 19 |
| Compression Set, 70 h at 100C, ASTM D395 Method B, % (Slab) | | 15 |
| EA14 <u>Water Resistance, 70 h at 100C, ASTM D471</u> | | |
| Hardness Change, pts | | -2 |
| Tensile Strength Change, % | | -3 |

| | | |
|----------------------|----|------|
| Elongation Change, % | | +1 |
| Volume Change, % | ±5 | +1.3 |

Fluid Resistance, DOT#3(CPC), 70 h at 125C, ASTM D471

| | | |
|----------------------------|--|------|
| Hardness Change, pts, | | -6 |
| Tensile Strength Change, % | | -9 |
| Elongation Change, % | | -5 |
| Volume Change, % | | +3.2 |

Fluid Resistance, DOT#3(CPC), 70 h at 150C, ASTM D471

| | | |
|----------------------------|--|------|
| Hardness Change, pts, | | -8 |
| Tensile Strength Change, % | | -11 |
| Elongation Change, % | | -2 |
| Volume Change, % | | +3.6 |

| | | | |
|-----|---|------|------|
| F17 | Low Temperature Resistance, ASTM D2137, Method A, 9.3.2, Nonbrittle after 3 min at -40C | Pass | Pass |
|-----|---|------|------|

** This test result is based on the test slabs and test buttons. The actual parts will be different with this test result.

2010-04-03/cwf