

## Material Test Report

### Compound A80-F101

AFLAS, Black, General Purpose

| Material Summary                             |                               |                 |
|----------------------------------------------|-------------------------------|-----------------|
| Material Type:                               | AFLAS                         |                 |
| Durometer:                                   | 80                            |                 |
| Color:                                       | Black                         |                 |
| Special Properties:                          |                               |                 |
| Recommended Temperature Range (Static):      | -10°C (14°F) to 220°C (428°F) |                 |
| Cure System:                                 | Peroxide                      |                 |
| Meets Specification:                         | ASTM D2000 M2HK810 B37        |                 |
| Original Properties                          | Requirements                  | Typical Results |
| Hardness, Shore A, pts, ASTM D2240-15        | 80±5                          | 81              |
| Tensile Strength, psi, ASTM D412-16          | 1450 (min)                    | 2772            |
| Elongation, %, ASTM D412-16                  | 150 (min)                     | 224             |
| Tear Resistance, Kg/cm (Die C)               |                               | 41              |
| Modulus @ 100%, psi, ASTM D412               |                               | 1256            |
| Modulus @ 200%, psi, ASTM D412               |                               | 2641            |
| Specific Gravity                             |                               | 1.62            |
| HEAT AGE, A1-10 (70 hrs. @ 250°C)            | Requirements                  | Typical Results |
| Hardness Change, pts, Shore A, ASTM D573-04  | +10 (max)                     | 0               |
| Tensile Strength Change, %, ASTM D573-04     | -25 (max)                     | -20             |
| Elongation Change, %, ASTM D573-04           | -25 (max)                     | -14             |
| Volume Change, %                             |                               | -4.5            |
| HEAT AGE, A (70 hrs. @ 275°C)                | Requirements                  | Typical Results |
| Hardness Change, pts, Shore A, ASTM D573-04  |                               | -1              |
| Tensile Strength Change, %, ASTM D573-04     |                               | -58             |
| Elongation Change, %, ASTM D573-04           |                               | -6              |
| Volume Change, %                             |                               | -8.4            |
| COMPRESSION SET, B37 (22 hrs. @ 175°C)       | Requirements                  | Typical Results |
| ASTM D395                                    | 50% (max)                     | 47.0            |
| COMPRESSION SET, B (22 hrs. @ 200°C)         | Requirements                  | Typical Results |
| ASTM D395, Slab                              |                               | 50.0            |
| SERVICE LIQUID NO. 101 OIL (70 hrs. @ 200°C) | Requirements                  | Typical Results |
| Hardness Change, pts, Shore A, ASTM D471     |                               | -22             |
| Tensile Strength Change, %, ASTM D471        |                               | -31             |
| Elongation Change, %, ASTM D471              |                               | +22             |
| Volume Change, %, ASTM D471                  |                               | +24.8           |

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| MOBIL JET OIL II (70 hrs. @ 200°C)       | Requirements | Typical Results |
|------------------------------------------|--------------|-----------------|
| Hardness Change, pts, Shore A, ASTM D471 |              | -15             |
| Tensile Strength Change, %, ASTM D471    |              | -26             |
| Elongation Change, %, ASTM D471          |              | +15             |
| Volume Change, %, ASTM D471              |              | +20             |
| FUEL C RESISTANCE (70 hrs. @ 23°C)       | Requirements | Typical Results |
| Hardness Change, pts, Shore A, ASTM D471 |              | -41             |
| Tensile Strength Change, %, ASTM D471    |              | -66             |
| Elongation Change, %, ASTM D471          |              | -36             |
| Volume Change, %, ASTM D471              |              | +75.9           |

Compound Previously Known As: A80101

Report Date: 3/8/2019

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