# Compound A80

**Tetrafluoroethylene-Propylene (AFLAS)**

**Material Description**

This elastomer is a copolymer of tetrafluoroethylene (TFE) and propylene. AFLAS is unique due to its resistance to petroleum products, steam, phosphate esters and brake fluids. In some respects, it exhibits media compatibility properties similar to ethylene propylene and fluorocarbon. It has fair resistance to brake fluids and phosphate esters while exhibiting good resistance to petroleum oils.

**Cure system: Peroxide-cured**

Standard AFLAS compounds are peroxide-cured.

**Other Common Variations**

- AFLAS is useful for seal applications requiring petroleum resistance, steam and amine resistance such as those applications encountered in the petroleum industry.
- AFLAS also has good resistance to petroleum and brake fluid or petroleum and phosphate ester.

| SERVICE TEMPERATURES | |
|---|---|
| Standard Low Temperature | -10°C (14°F) |
| Standard High Temperature | 220°C (428°F) |
| Brittle Point | -40°C (-40°F) |
| Peak Exposure Temperature | 260°C (500°F) |

| PERFORMS WELL WITH: |
|---|
| • Petroleum fluids |
| • Brake fluids |
| • Bases |
| • Phosphate esters |
| • Amines |
| • Engine oils |
| • Steam and hot water |
| • Pulp and paper liquids |

| DOESN'T PERFORM WELL IN: |
|---|
| • Aromatic fuels |
| • Ketones |
| • Chlorinated hydrocarbons |

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A80

# TEST REPORT FOR COMPOUND A80

**MATERIAL: AFLAS**
**DUROMETER: 80**
**COLOR: BLACK**
**ASTM* D2000 M2HK810 B38**

| SECTION OF SPEC. | PROPERTIES | REQUIREMENTS | RESULTS | ASTM TEST |
|---|---|---|---|---|
| | **ORIGINAL PHYSICAL PROPERTIES** | | | |
| | Hardness, Shore A | 80±5 | 80 | D2240 |
| | Tensile Strength, psi (MPa) | 1450 (10) (min.) | 2097 | D412 |
| | Ultimate Elongation, percent, min. | 150 | 334 | D412 |
| Basic | **HEAT AGE RESISTANCE** | | | D573 |
| | **70 hours at 250°C (482°F)** | | | |
| | Hardness Change, points, max. | ±15 | +6 | |
| | Tensile Strength Change, %, max. | ±30 | -3 | |
| | Elongation Change, percent, max. | -50 | -25 | |
| B38 | **COMPRESSION SET** | | | D395, Method B |
| | **22 hours at 175°C (347°F), percent** | 50 | 44 | |

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