



MATERIAL REPORT

REPORT NUMBER:

DATE: 1/15/2002

TITLE: Evaluation of Parker Compound VA154-95 (16949)

PURPOSE: To obtain general information

Recommended temperature limits: -15⁰F to 400⁰F

Recommended For

Extrusion Resistance

Petroleum, mineral, and vegetable oils

Silicone fluids

Aromatic hydrocarbons (benzene, toluene)

Chlorinated hydrocarbons

High vacuum

Ozone, weather, aging resistance

Not Recommended For

Hot water and steam

Auto and aircraft brake fluids

Amines

Ketones

Low molecular weight esters and ethers



REPORT DATA

| | Test Results |
|--|-------------------------|
| Original Physical Properties, ASTM D412, D2240, D297 | |
| Hardness, Shore A, pts. | 93 |
| Tensile Strength, psi | 2030 |
| Ultimate Elongation, % | 62 |
| Modulus @ 50%, psi | 1740 |
| Specific Gravity | 1.77 |
| Compression Set, ASTM D395 Method B (70 hrs. @ 347°F) | |
| Percent of Original Deflection | 25 |
| Dry Heat Resistance, ASTM D573 (70 hrs. @ 482°F) | |
| Hardness Change, pts. | +1 |
| Tensile Change, % | -5 |
| Elongation Change, % | -19 |
| Fluid Immersion, ASTM D471 Distilled Water, (70 hrs. @ 212°F) | |
| Hardness Change, pts. | +3 |
| Tensile Change, % | +2 |
| Elongation Change, % | +1 |
| Volume Change, % | +3 |
| Fluid Immersion, ASTM D471 50% Distilled Water / 50% Ethylene Glycol, (70 hrs. @ 212°F) | |
| Hardness Change, pts. | -2 |
| Tensile Change, % | +2 |
| Elongation Change, % | -3 |
| Volume Change, % | +1 |
| Fluid Immersion, ASTM D471 IRM 903 Oil, (70 hrs. @ 302°F) | |
| Hardness Change, pts. | +1 |
| Tensile Change, % | -2 |
| Elongation Change, % | -3 |
| Volume Change, % | +4 |
| Compression Set, ASTM D395 Method B (22 hrs. @ -40°F) | |
| Percent of Original Deflection | 26 |
| Low Temperature, ASTM D1329, 2-218 o-ring TR-10, °F | |
| | +3 |