



Compound Data Sheet
O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KT2054

DATE: 5/12/90

TITLE: Evaluation of Parker Compound N0300-90 to the requirements of ASTM D2000 7BG915 EA14 EF11 EF21 Z1.

PURPOSE: To provide conformance data.

CONCLUSION: N0300-90 meets the requirements of the above specification.

Recommended Temperature Range: -40 to 180F

Recommended for: petroleum oils, water (up to 212F),
Salt & Alkali solutions, weak acids

Not Recommended for: aromatic fuels, strong acids,
glycols, ozone, polar solvents

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| <u>ORIGINAL PHYSICAL PROPERTIES</u> | <u>ASTM D2000 7BG915 EA14 EF11 EF21 Z1</u> | <u>N0300-90 PLATENS</u> |
|--|--|-----------------------------|
| Hardness, Shore A, pts. | 90 (± 5) | 86 |
| Tensile Strength, PSI | 1450 | 1683 |
| Elongation, % | 100 | 104 |
| <u>EA14 - WATER RESISTANCE, 70 HRS. @ 212° F, ASTM D471</u> | | |
| Hardness Change, pts. | ± 10 | + 4 |
| Volume Change, % | ± 15 | + 0.2 |
| <u>EF11 FUEL RESISTANCE, FUEL A, 70 HRS. @ R.T., ASTM D471</u> | | |
| Hardness Change, pts. | ± 10 | - 1 |
| Tensile Change, % | - 25 | - 23.6 |
| Elongation Change, % | - 25 | - 23.1 |
| Volume Change, % | -5 to +10 | - 0.9 |
| <u>EF11 FUEL RESISTANCE, FUEL B, 70 HRS. @ R.T., ASTM D471</u> | | |
| Hardness Change, pts. | 0 to - 30 | -6 |
| Tensile Change, % | - 60 | - 45.1 |
| Elongation Change, % | - 60 | - 23.1 |
| Volume Change, % | 0 to + 40 | + 13.4 |
| <u>COMPRESSION SET, ASTM D395 22 HRS @ 212° F</u> | | |
| % of Original Deflection, max | 50 | 48.6 |
| <u>OIL IMMERSION, ASTM D471, ASTM OIL #3, 70 HRS. @ 212° F</u> | | |
| Volume Change, %, max | +40 | +0.5 |
| <u>HEAT AGED, ASTM D573 70 HRS. @ 100° C</u> | | |
| Hardness Change, pts., max | +/-15 | +4 |
| Tensile Change, %, max | +/-30 | -19.6 |
| Z1 - Elongation Change, %, max | -65 | -62.5 |