MATERIAL REPORT

REPORT NUMBER:  
DATE: 6/14/2001

TITLE: Evaluation of Parker Compound KA174-75 (21107)
PURPOSE: To obtain general information.

Recommended temperature limits: -25°F to 300/325°F

Recommended For
Petroleum based hydraulic oil, motor oil, transmission fluid, grease
R134a
Water/glycol/steam
HFA, HFB, and HFC fluids
Ozone, aging, and weather resistance

Not Recommended For
Polar solvents (ketones and esters)
Strong acids
Chlorinated hydrocarbons
Auto and aircraft brake fluids
# REPORT DATA

## Original Physical Properties, ASTM D1414, D2240
- **Hardness, Shore A, pts.** | 76
- **Tensile Strength, psi** | 2700
- **Ultimate Elongation, %** | 200
- **Modulus @ 100%, psi** | 1100

## Compression Set, ASTM D395 Method B Percent of Original Deflection
- 70 hrs. @ 302°F, 2-214 o-ring | 41
- 70 hrs. @ 302°F, button | 14
- 168 hrs. @ 302°F, 2-214 o-ring | 60

## Dry Heat Resistance, ASTM D573
- **(70 hrs. @ 302°F)**
  - Hardness Change, pts. | +10
  - Tensile Change, % | +7
  - Elongation Change, % | -11

## Dry Heat Resistance, ASTM D573
- **(70 hrs. @ 350°F)**
  - Hardness Change, pts. | +10
  - Tensile Change, % | -7
  - Elongation Change, % | -46

## Dry Heat Resistance, ASTM D573
- **(3 months @ 300°F)**
  - Hardness Change, pts. | +20
  - Tensile Change, % | -38
  - Elongation Change, % | -88

## Fluid Immersion, ASTM D471
- **ASTM #1 Oil, (70 hrs. @ 302°F)**
  - Hardness Change, pts. | +1
  - Tensile Change, % | +2
  - Elongation Change, % | -4
  - Volume Change, % | +1

## Fluid Immersion, ASTM D471
- **ASTM #3 Oil, (70 hrs. @ 302°F)**
  - Hardness Change, pts. | -7
  - Tensile Change, % | -6
  - Elongation Change, % | 0
  - Volume Change, % | +23

## Fluid Immersion, ASTM D471 Test
- **NO. 2 Diesel Fuel, (70 hrs. @ 302°F) Results**
  - Hardness Change, pts. | -8
  - Tensile Change, % | -20
  - Elongation Change, % | 0
  - Volume Change, % | +35
### Fluid Immersion, ASTM D471
**Distilled Water, (70 hrs. @ 212°F)**
- Hardness Change, pts.: +4
- Tensile Change, %: +4
- Elongation Change, %: 0
- Volume Change, %: +3

### Ozone Resistance, ASTM D1171
- 70 hrs., 100 pphm @ 100°F, 20% Stretch: No Cracks

### Low Temperature, ASTM D1329
- TR-10, °F (o-ring): -7.6