MATERIAL REPORT

REPORT NUMBER:  
DATE: 7/1/2001

TITLE: Evaluation of Parker Compound KB190-50 (21705)
PURPOSE: To obtain general information.

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

Recommended For
Automotive applications
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 D412, D2240
- Hardness, Shore A, pts.: **52**
- Tensile Strength, psi: **1073**
- Ultimate Elongation, %: **288**

### Compression Set, ASTM D395 Method B (22 hrs. @ 302ºF)
- Percent of Original Deflection (plied): **22**
- Percent of Original Deflection (½” buttons): **16**

### Dry Heat Resistance, ASTM D573 (70 hrs. @ 257ºF)
- Hardness Change, pts.: **+4**
- Tensile Change, %: **+3**
- Elongation Change, %: **-8**

### Fluid Immersion, ASTM D471
- ASTM #1 Oil, (70 hrs. @ 302ºF)
  - Hardness Change, pts.: **+3**
  - Tensile Change, %: **+10**
  - Elongation Change, %: **-4**
  - Volume Change, %: **-7**

- IRM 903 Oil, (70 hrs. @ 302ºF)
  - Hardness Change, pts.: **-2**
  - Tensile Change, %: **-24**
  - Elongation Change, %: **-13**
  - Volume Change, %: **+7**

### Low Temperature Brittleness, ASTM D2137
- Nonbrittle after 3 min. @ -13ºF: **Passed**