



# MATERIAL REPORT

DATE: 11/4/99

**TITLE:** Evaluations of Parker compound AE153-70 (formerly 12917.)

**PURPOSE:** General Data

Recommended temperature limits: -40 °F to 325 °F

Recommended For

Ozone

Oxidizing media

Moderate resistance to mineral oils

Not Recommended For

Ketones

Fuels

Brake Fluids



## REPORT DATA

|  | <u>AE153-75 (12917) Test Platen</u> |
|--|-------------------------------------|
|  | <u>Results</u>                      |
| <u>Basic Physical Properties</u>                   |                                     |
| Hardness   | 74                                  |
| Tensile Strength, psi.                             | 2001                                |
| Elongation, %                                      | 310                                 |
| Modulus @ 100%, psi.                               | 1073                                |
| <u>Heat Aging, 168 H @ 302 °F</u>                  |                                     |
| Hardness Change, pts                               | +15                                 |
| Tensile Change, %                                  | -13                                 |
| Elongation Change, %                               | -12                                 |
| <u>Fluid Immersion, ASTM #1 Oil, 70 H @ 302 °F</u> |                                     |
| Hardness Change, pts                               | -4                                  |
| Tensile Change, %                                  | -11                                 |
| Elongation Change, %                               | -9                                  |
| Volume Change, %                                   | +3                                  |
| <u>Fluid Immersion, IRM 903, 70 H @ 302 °F</u>     |                                     |
| Hardness Change, pts                               | -16                                 |
| Tensile Change, %                                  | -22                                 |
| Elongation Change, %                               | -38                                 |
| Volume Change, %                                   | +37                                 |
| <u>Fluid Immersion, Dextron III, 70H @ 302 °F</u>  |                                     |
| Hardness Change, pts                               | -6                                  |
| Tensile Change, %                                  | -4                                  |
| Elongation Change, %                               | -5                                  |
| Volume Change, %                                   | +14                                 |
| <u>Compression Set, 22 H @ 302°F</u>               |                                     |
| Percent of Original Deflection (plied)             | 14                                  |
| <u>Compression Set, 70 H @ 302°F</u>               |                                     |
| Percent of Original Deflection (1/2 " buttons)     | 17                                  |
| <u>Low Temperature Brittleness</u>                 |                                     |
| Nonbrittle after 3 min. @ -40°C                    | Passed                              |
| <u>Tear Strength, Die B</u>                        |                                     |
| KN/m   | 21                                  |