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# 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

### AE153-75 (12917) Test Platen

#### Results

#### Basic Physical Properties

Hardness	74
Tensile Strength, psi.	2001
Elongation, %	310
Modulus @ 100%, psi.	1073

#### Heat Aging, 168 H @ 302 °F

Hardness Change, pts	+15
Tensile Change, %	-13
Elongation Change, %	-12

#### Fluid Immersion, ASTM #1 Oil, 70 H @ 302 °F

Hardness Change, pts	-4
Tensile Change, %	-11
Elongation Change, %	-9
Volume Change, %	+3

#### Fluid Immersion, IRM 903, 70 H @ 302 °F

Hardness Change, pts	-16
Tensile Change, %	-22
Elongation Change, %	-38
Volume Change, %	+37

#### Fluid Immersion, Dextron III, 70H @ 302 °F

Hardness Change, pts	-6
Tensile Change, %	-4
Elongation Change, %	-5
Volume Change, %	+14

#### Compression Set, 22 H @ 302°F

Percent of Original Deflection (plied)	14
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#### Compression Set, 70 H @ 302°F

Percent of Original Deflection (1/2 " buttons)	17
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#### Low Temperature Brittleness

Nonbrittle after 3 min. @ -40°C	Passed
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#### Tear Strength, Die B

KN/m	21
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