



# MATERIAL REPORT

DATE: 11/4/99

**TITLE:** Evaluations of Parker compound AE152-70 (formerly 12897.)

**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

AE152-70 (12897) Test Platen  
Results

Basic Physical Properties

Hardness	72
Tensile Strength, psi.	2172
Elongation, %	245
Modulus @ 100%, psi.	697

Heat Aging, 70 H @ 302 °F

Hardness Change, pts	+1
Tensile Change, %	+10
Elongation Change, %	-4

Heat Aging, 168 H @ 302 °F

Hardness Change, pts	+7
Tensile Change, %	+19
Elongation Change, %	-3

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

Hardness Change, pts	-6
Tensile Change, %	-1
Elongation Change, %	-11
Volume Change, %	+4



## Compound Data Sheet

Parker O-Ring Division United States

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

Hardness Change, pts	-21
Tensile Change, %	-25
Elongation Change, %	-18
Volume Change, %	+53

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

Hardness Change, pts	-13
Tensile Change, %	-25
Elongation Change, %	-20
Volume Change, %	+26

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

Hardness Change, pts	-14
Tensile Change, %	-21
Elongation Change, %	-9
Volume Change, %	+18

### 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 (plied)	31
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### Low Temperature Brittleness

Nonbrittle after 3 min. @ -25°C	Passed
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### Tear Strength, Die B

KN/m	27
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