



# MATERIAL REPORT

DATE: 7/8/1998

**TITLE:** Evaluation of LM153-70 to (formerly 11647).

**PURPOSE:** To obtain general data for LM153-70 (11647)

Recommended temperature limits: -100 °F to 350 °F

Recommended For

Aromatic mineral oils (IRM 903 oil)

Petroleum oils

Low molecular weight aromatic hydrocarbons (benzene, toluene)

Jet Fuels

Chlorinated Solvents

Dry heat and low temp

Not Recommended For

Phosphate-esters

Acids

Ketones

Amines (ammonia)

Auto and aircraft brake fluids



## REPORT DATA

### LM153-70 Test Platen Results

#### Basic Physical Properties

Hardness	71
Tensile Strength, psi.	923
Elongation, %	177
Modulus @ 100%, psi	500

#### Heat Aging, 70 H @ 400 °F

Hardness Change, pts	+1
Tensile Change, %	-17
Elongation Change, %	-21

#### Fluid Immersion, Mil-H- 5606, 70 H @ 275 °F

Hardness Change, pts	-10
Tensile Change, %	-16
Elongation Change, %	0
Volume Change, %	+9

#### Fluid Immersion, Mil-S-3136, 70 H @ RT

Hardness Change, pts	-11
Tensile Change, %	-51
Elongation Change, %	-29
Volume Change, %	+21

#### Fluid Immersion, ASTM Service Fluid #101, 70 H @ 350 °F

Hardness Change, pts	-18
Tensile Change, %	-53
Elongation Change, %	-3
Volume Change, %	+9



## Compound Data Sheet

Parker O-Ring Division United States

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Fluid Immersion, DC 200, 70 H @ 300 °F

Hardness Change, pts	-2
Tensile Change, %	-5
Elongation Change, %	+5
Volume Change, %	0

Fluid Immersion, ASTM #3 Fluid, 70 H @ 300 °F

Hardness Change, pts	-4
Tensile Change, %	-18
Elongation Change, %	+5
Volume Change, %	+4

Fluid Immersion, JP-4 Fuel, 70 H @ 300 °F

Hardness Change, pts	-10
Tensile Change, %	-49
Elongation Change, %	-18
Volume Change, %	+17

Compression Set, 70 H @ 250°F

Percent of Original Deflection (plied)	14
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Low Temperature

TR-10, °F	-90
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