



# MATERIAL REPORT

REPORT NUMBER: KK1775B  
DATE: 12/17/87

**TITLE:** Testing of Parker Compound N1090-85.

**PURPOSE:** To provide general data.

**REVISIONS:** A: Complete Revision, 12/09/85  
B: Revised Hardness 80 to 85, 12/17/87

**Recommended Temperature Range:** -25 to 225F

**Recommended for:** petroleum oils, water (up to 212F),  
Salt & Alkali solutions, weak acids

**Not Recommended for:** aromatic fuels, strong acids,  
glycols, ozone, polar solvents

Parker O-Ring Division  
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# REPORT DATA

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\*COMPOUND

N1090-85

B/N 271475

ORIGINAL PHYSICAL PROPERTIES

Hardness, Shore A, pts.	85
Tensile Strength, psi.	2574
Elongation, %	150
100% Modulus	1683
Specific Gravity	1.25

HEAT AGING

70 HRS. @ 257°F

Hardness Change, pts.	+ 7
Tensile Change, %	+ 18.3
Elongation Change, %	- 13.3

FLUID IMMERSION, ASTM #1

70 HRS. @ 212°F

Hardness Change, pts.	0
Tensile Change, %	+ 7.7
Elongation Change, %	- 17.3
Volume Change, %	- 2.2

FLUID IMMERSION, ASTM #3,

70 HRS. @ 212°F

Hardness Change, pts.	- 5
Tensile Change, %	+ 4.5
Elongation Change, %	+ 6.7
Volume Change, %	+ 8.9

COMPRESSION SET,

70 HRS. @ 212°F

% of Original Deflection	28.6
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\*ASTM Test Slabs