



**Compound Data Sheet**  
**O-Ring Division United States**

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# MATERIAL REPORT

REPORT NUMBER: KK2226

DATE: 5/29/98

**TITLE:** General evaluation of N1210-90.

**PURPOSE:** To obtain general test data.

**Recommended Temperature Range:** -30 to 275F

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

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

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## REPORT DATA

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### N1210-90

#### Original Physical Properties

Hardness (Shore A) pts	87
Tensile Strength, psi	2980
Elongation, %	82
Modulus @ 50%, psi	1606

#### Low Temperature Properties

TR-10, °F	-13
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#### Compression Set

70 Hours @ 212 °F	6
70 Hours @ 257 °F	10
70 Hours @ 302 °F	15

#### Heat Resistance (70 Hrs @ 257°F), ASTM D865

Hardness Change, pts	+1
Tensile Strength Change, %	-31
Elongation Change, %	+4
Surface Condition	No Cracks

#### ASTM #1 Oil (70 Hrs @ 257 °F), ASTM D471

Hardness Change, pts	0
Tensile Strength Change, %	-8
Elongation Change, %	-17
Volume Change, %	0

#### ASTM Oil #3 (70 Hrs @ 257 °F), ASTM D471

Hardness Change, pts	-6
Tensile Strength Change, %	+13
Elongation Change, %	+2
Volume Change, %	+6

#### 50/50 Ethylene Glycol / Water (70 Hrs @ 212 °F), ASTM D471

Hardness Change, pts	-1
Tensile Strength Change, %	-7
Elongation Change, %	-6
Volume Change, %	+3

#### Compression Set (1000 Hrs @ 257°F)

.139 in thickness	54
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