



Compound Data Sheet
O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KT1752

DATE: 06/12/85

TITLE: Evaluation of FDA Nitrile Material N0508-75.

PURPOSE: Physical data profile.

Recommended Temperature Range: -30 to 180F

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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ORIGINAL PHYSICAL PROPERTIESCOMPOUND N0508-75

Hardness, Shore A, pts.	73
Tensile Strength, psi.	2042
Elongation, %	488
Modulus @ 100%, psi.	552

AGING IN WATER

70 HRS. @ 212°F

Hardness Change, pts	- 8
Tensile Change, %	- 6
Elongation Change, %	+ 1
Volume Change, %	+ 4.3
Modulus Change, %	- 36

AGING IN AIR

70 HRS. @ 212°F

Hardness Change, %	+ 7
Tensile Change, %	+ 16
Elongation Change, %	- 24

FLUID IMMERSION

PEANUT OIL

70 HRS. @ 212°F

Hardness Change, %	0
Tensile Change, %	+ 17
Elongation Change, %	- 18
Volume Change, %	- 1.0