



MATERIAL REPORT

REPORT NUMBER: KB4491

DATE: 03/01/85

TITLE: Evaluation of Parker Compound N0750-80

PURPOSE: To document conformance to acceptance tests.

CONCLUSION: Parker compound N0750-80 meets these requirements

Recommended Temperature Range: -25 to 250F

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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<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>SPECIFICATION</u>	<u>COMPOUND:N0750-80</u> <u>SIZE: 2-220 O-RINGS</u>
Hardness, Shore A, pts.	75 - 85	85
Tensile Strength, psi.	1800 min.	3053
Elongation, %	150 min.	232
Permanent set @ 100%	5%	3%
Low temp. flex., 5 hrs @ -40°F	No cracks	No cracks
<u>ASTM #3, 70 HRS @ 212°F</u>		
Hardness, Shore 'A'	± 10	85 (0)
Volume Change, %	+5 to +30	+11.0
Low temp. flex., 5 hrs. @ -40°F	No cracks	No cracks
180° Flat Bend	No cracks	No cracks
<u>ASTM #1, 70 HRS @ 300°F</u>		
Hardness, Shore 'A'	± 10	88 (+3)
Tensile, psi	-30% max.	2393 (-21.6)
Elongation, %	-80% max.	129 (-44.4)
Volume Change, %	-5 to +30%	-0.8
Low temp. flex., 5 hrs. @ -40°F	No cracks	No cracks
180° Flat Bend	No cracks	No cracks
<u>MIL-0-5606C, 70 HRS @ 250°F</u>		
Hardness, Shore 'A'	± 10	83 (-2)
Tensile, psi	-50	3465 (+13.5)
Elongation, %	-80	335 (+44.3)
Volume Change, %	0 to +30	+11.3
Low temp. flex., 5 hrs @ -40°F	No cracks	No cracks
180° Flat Bend	No cracks	No cracks
<u>AIR OVEN AGE, 70 HRS @ 212°F</u>		
Hardness, Shore 'A'	± 10	88 (+3)
Tensile, psi	-30% max.	4207 (+37.8)
Elongation, %	-80% max.	189 (-18.5)
Low temp. flex., 5 hrs @ -40°F	No cracks	No cracks
180° Flat Bend	No cracks	No cracks
<u>COMPRESSION SET, 25%, 70 HRS @ 212°F</u>		
% of original Deflection	50% max.	28.6