



Compound Data Sheet
O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KT2169

DATE: 01/31/92

TITLE: Parker Compound N0545-40 Compliance to ASTM D2000
M2BG410 B34 EA14EF11 EO34.

PURPOSE: To document conformance of Parker Compound N0545-40 to
specification requirements.

CONCLUSION: Parker Compound N0545-40 fully meets the requirements of
the title specification.

Recommended Temperature Range: -45 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

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<u>BASIC REQUIREMENT</u>	<u>LIMIT</u>	<u>RESULT</u>
Hardness, Shore A, pts.	40 ± 5	41
Tensile Strength, psi.	10 (1450)	14.1 (2050)
Elongation, %	450	786
 <u>HEAT AGE</u>		
<u>70 HRS @ 100°C (212°F)</u>		
Hardness Change, pts	± 15	+ 7
Tensile Change, %	± 30	- 3.1
Elongation Change, %	-50	-15.7
 <u>B34 COMPRESSION SET</u>		
<u>22 HRS @ 100°C (212°F)</u>		
<u>BASED ON 25% ORIGINAL DEFLECTION</u>		
Max., %	25	16.6
 <u>EA14 WATER RESISTANCE</u>		
<u>70 HRS @ 100°C (212°F)</u>		
Hardness Change, pts	±10	+ 9
Volume Change, %	±15	- 5.6
 <u>EF11 REFERENCE FUEL A</u>		
<u>70 HRS @ 23°C (73°F)</u>		
Hardness Change, pts	±10	- 1
Tensile Change, %	-25	- 9.2
Elongation Change, %	-25	- 5.5
Volume Change, %	- 5 to +10	+ .8
 <u>EO34 ASTM #3 OIL</u>		
<u>70 HRS @ 100°C (212°F)</u>		
Hardness Change, pts	-10 to +5	+ 2
Tensile Change, %	-45	+10.1
Elongation Change, %	-45	- 9.2
Volume Change, %	0 to +25	+3.4