



MATERIAL REPORT

DATE: 02/29/00

TITLE: Evaluation of Parker's Compound NF162-65

CONCLUSION: Compound NF162-65 meets or exceeds all requirements of subject specification.

Recommended Temperature Range: -25 to 250F

Recommended for: petroleum oils, water (up to 180F),
Salt & Alkali solutions, weak acids

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

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Kentucky 40512
(859) 269-2351

REPORT DATA

<u>Original Physical Properties, ASTM D1414, D2240</u>	<u>NF162-65 Test Results</u>
Hardness, Shore A, pts.	64
Tensile Strength, psi	1510
Ultimate Elongation, %	306
Modulus @ 100%, psi	502
Compression Set, ASTM D395 Method B (70 hrs. @ 257°F)	
Percent of Original Deflection	45
Fluid Immersion, ASTM D471 Fuel B, (70 hrs. @ RT)	
Hardness Change, pts.	-6
Tensile Change, %	-37
Elongation Change, %	-12
Volume Change, %	+10
Fluid Immersion, ASTM D471 Fuel C, (70 hrs. @ RT)	
Hardness Change, pts.	-7
Tensile Change, %	-43
Elongation Change, %	-22
Volume Change, %	+16
Fluid Immersion, ASTM D471 90% Fuel C / 10% Ethanol, (70 hrs. @ RT)	
Hardness Change, pts.	-10
Tensile Change, %	-51
Elongation Change, %	-19
Volume Change, %	+21
Fluid Immersion, ASTM D471 85% Fuel C / 15% Ethanol, (70 hrs. @ RT)	
Hardness Change, pts.	-9
Tensile Change, %	-53
Elongation Change, %	-28
Volume Change, %	+30
Fluid Immersion, ASTM D471 90% Fuel C / 10% Methanol, (70 hrs. @ RT)	
Hardness Change, pts.	-9
Tensile Change, %	-55
Elongation Change, %	-27
Volume Change, %	+32
Fluid Immersion, ASTM D471 Test 85% Fuel C / 15% Methanol, (70 hrs. @ RT) Results	
Hardness Change, pts.	-12
Tensile Change, %	-38
Elongation Change, %	-35
Volume Change, %	+34