MATERIAL REPORT

REPORT NUMBER:
DATE: 11/29/99

TITLE: Evaluation of Parker Compound VB153-75 (19717)

PURPOSE: To obtain general information

Recommended temperature limits: -15^0F to 400^0F

Recommended For
Fuels
Petroleum, mineral, and vegetable oils
Silicone fluids
Aromatic hydrocarbons (benzene, toluene)
Chlorinated hydrocarbons
High vacuum
Ozone, weather, aging resistance

Not Recommended For
Hot water and steam
Auto and aircraft brake fluids
Amines
Ketones
Low molecular weight esters and ethers

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Kentucky 40509
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Compound Data Sheet
Parker O-Ring Division United States

REPORT DATA

	Test Results
Original Physical Properties, ASTM D412, D2240	
Hardness, Shore A, pts.	73
Tensile Strength, psi	1666
Ultimate Elongation, %	231
Compression Set, ASTM D395 Method B (70 hrs. @ 302ºF)	
Percent of Original Deflection (plied)	23
Dry Heat Resistance, ASTM D573 (168 hrs. @ 302ºF)	
Hardness Change, pts.	+1
Tensile Change, %	-1
Elongation Change, %	-8
Fluid Immersion, ASTM D471 ASTM #1 Oil, (70 hrs. @ 302ºF)	
Hardness Change, pts.	-2
Tensile Change, %	-4
Elongation Change, %	-13
Volume Change, %	+1
Fluid Immersion, ASTM D471 IRM 903 Oil, (70 hrs. @ 302ºF)	
Hardness Change, pts.	-4
Tensile Change, %	-7
Elongation Change, %	-10
Volume Change, %	+2
Fluid Immersion, ASTM D471 SAE 5W30 Oil, (500 hrs. @ 302ºF)	
Hardness Change, pts.	+2
Tensile Change, %	-43
Elongation Change, %	-29
Volume Change, %	+1
Fluid Immersion, ASTM D471 Fuel C, (70 hrs. @ 73ºF)	
Hardness Change, pts.	-4
Tensile Change, %	-12
Elongation Change, %	-16
Volume Change, %	+6
Fluid Immersion, ASTM D471 Test 90% Fuel C / 10% Ethanol, (70 hrs. @ 73ºF) Results	
Hardness Change, pts.	-8
Tensile Change, %	-28
Elongation Change, %	-19
Volume Change, %	+9
Low Temperature	
70 hrs. @ -40ºF, Mandrel Bend	No Cracks

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