



MATERIAL REPORT

REPORT NUMBER:

DATE: 4/26/94

TITLE: Evaluation of Parker Compound VB184-75 (19487)

PURPOSE: To obtain general information

Recommended temperature limits: -15⁰F to 400⁰F

Recommended For

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



REPORT DATA

	Test Results
Original Physical Properties, ASTM D1414, D2240	
Hardness, Shore A, pts.	76
Tensile Strength, psi	1363
Ultimate Elongation, %	262
Modulus @ 100%, psi	589
Compression Set, ASTM D395 Method B (168 hrs. @ 302°F)	
Percent of Original Deflection	23
Compression Set, ASTM D395 Method B (1000 hrs. @ 325°F)	
Percent of Original Deflection	34
Dry Heat Resistance, ASTM D573 (168 hrs. @ 325°F)	
Hardness Change, pts.	+2
Tensile Change, %	+4
Elongation Change, %	+14
Modulus @ 100% Change, %	-13
Dry Heat Resistance, ASTM D573 (1000 hrs. @ 325°F)	
Hardness Change, pts.	-3
Tensile Change, %	+10
Elongation Change, %	+15
Modulus @ 100% Change, %	-2
Fluid Immersion, ASTM D471 ASTM #1 Oil, (168 hrs. @ 302°F)	
Hardness Change, pts.	+3
Tensile Change, %	-2
Elongation Change, %	+8
Volume Change, %	0
Fluid Immersion, ASTM D471 ASTM #3 Oil, (168 hrs. @ 302°F)	
Hardness Change, pts.	+2
Tensile Change, %	-2
Elongation Change, %	+8
Volume Change, %	+2
Fluid Immersion, ASTM D471 Test SAE 5W30 Engine Oil, (168 hrs. @ 302°F) Results	
Hardness Change, pts.	-2
Tensile Change, %	-25
Elongation Change, %	+6
Volume Change, %	+2



Compound Data Sheet
Parker O-Ring Division United States

Fluid Immersion, ASTM D471

SAE 5W30 Engine Oil, (1000 hrs. @ 302°F)

Hardness Change, pts.	+1
Tensile Change, %	-18
Elongation Change, %	+7
Volume Change, %	+2

Fluid Immersion, ASTM D471

SAE 15W40 SF-CD Diesel Engine Oil, (168 hrs. @ 302°F)

Hardness Change, pts.	-3
Tensile Change, %	-10
Elongation Change, %	+6
Volume Change, %	+1

Fluid Immersion, ASTM D471

SAE 15W40 SF-CD Diesel Engine Oil, (1000 hrs. @ 302°F)

Hardness Change, pts.	-1
Tensile Change, %	-18
Elongation Change, %	-14
Volume Change, %	+2

Fluid Immersion, ASTM D471

Fuel C, (70 hrs. @ RT)

Hardness Change, pts.	-7
Tensile Change, %	-31
Elongation Change, %	-13
Volume Change, %	+4

Fluid Immersion, ASTM D471

85% Fuel C / 15% Methanol, (70 hrs. @ RT)

Hardness Change, pts.	-9
Tensile Change, %	-26
Elongation Change, %	-23
Volume Change, %	+16

Fluid Immersion, ASTM D471

Absolute Methanol, (70 hrs. @ RT)

Volume Change, %	+18
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Tear Strength, Die C, ASTM D624

kN/m	26
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