



# MATERIAL REPORT

REPORT NUMBER:

DATE: 1/19/2000

**TITLE:** Evaluation of Parker Compound VA163-80 (19318)

**PURPOSE:** To obtain general information

Recommended temperature limits: -15<sup>0</sup>F to 400<sup>0</sup>F

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

	<b>Test Results</b>
<b>Original Physical Properties, ASTM D1414, D2240</b>	
Hardness, Shore A, pts.	78
Tensile Strength, psi	1529
Ultimate Elongation, %	197
Modulus @ 100%, psi	825
<b>Compression Set, ASTM D395 Method B (70 hrs. @ 392°F)</b>	
Percent of Original Deflection	45
<b>Dry Heat Resistance, ASTM D573 (70 hrs. @ 482°F)</b>	
Hardness Change, pts.	+4
Tensile Change, %	-21
Elongation Change, %	-38
<b>Dry Heat Resistance, ASTM D573 (70 hrs. @ 528°F)</b>	
Hardness Change, pts.	+6
Tensile Change, %	-23
Elongation Change, %	-42
<b>Fluid Immersion, ASTM D471 Fuel B, (70 hrs. @ RT)</b>	
Hardness Change, pts.	+4
Tensile Change, %	-13
Elongation Change, %	-23
Volume Change, %	+1
<b>Fluid Immersion, ASTM D471 Stauffer 7700, (70 hrs. @ 350°F)</b>	
Hardness Change, pts.	-2
Tensile Change, %	-39
Elongation Change, %	-42
Volume Change, %	+15
<b>Fluid Immersion, ASTM D471 ASTM Service Fluid #101, (70 hrs. @ 400°F)</b>	
Hardness Change, pts.	0
Tensile Change, %	-36
Elongation Change, %	-23
Volume Change, %	+11