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Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER:

DATE: 1/19/2000

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

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

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Kentucky 40509
(859) 269-2351



REPORT DATA

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