



# COMPOUND DATA SHEET

Parker O-Ring Division, North America

## MATERIAL REPORT

Report Number: 85102  
Date: 1/24/2012

**Title:** Evaluation of Parker Compound V1164-75

**Elastomer Type:** Fluorocarbon (FKM)

**Purpose:** To obtain typical test data.

**Specification:** ASTM D2000 M6HK810 A1-10 B38 EF31 E088 Z1 (Shore A Hardness 75 +/-5)

**Color:** Black

**Recommended Temperature Range:** -15°F to 400°F

**Recommended For:** Mineral oil and grease, ASTM No. 1 oil, IRM 902 oil, IRM 903 oil, non-flammable hydraulic fluids, silicone oils and greases, aliphatic hydrocarbons (propane, butane, natural gas), aromatic hydrocarbons (benzene, toluene), chlorinated hydrocarbons (trichloroethylene and carbon tetrachloride), gasoline, high vacuum, ozone, weather, and aging resistance.

**Not Recommended For:** Glycol based brake fluids, ammonia gas, amines, alkalis, superheated steam, and low molecular weight organic acids (formic and acetic acids).

**Additional Approvals:**

## REPORT DATA

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Test Results</u>
(Z1) Hardness, Shore A, pts.	ASTM D2240	75 ±5	78
Tensile Strength, Mpa	ASTM D412	10	16
Ultimate Elongation, %	ASTM D412	150	181
<b>Fluid Resistance (Basic Requirement)</b>			
<b><u>IRM 903, 70 hrs @ 302°F</u></b>			
Volume Change, %	ASTM D471	+10	+2
<b>(A1-10) Heat Age</b>			
<b><u>70 hrs. @ 482°F</u></b>			
Hardness Change, pts.	ASTM D573	+10	+1
Tensile Strength Change, %		-25	-3
Ultimate Elongation Change, %		-25	-3
<b>(B38) Compression Set (Plid)</b>			
<b><u>22 hrs. @ 392°F</u></b>			
Percent of Original Deflection, Max	ASTM D395 Method B	15	15
<b>(EF31) Fluid Resistance</b>			
<b><u>Fuel C, 70 hrs @ 73°F</u></b>			
Hardness Change, pts.	ASTM D471	± 5	-2
Tensile Strength Change, %		-25	-15
Ultimate Elongation Change, %		-20	-4
Volume Change, %		0 to +10	+3
<b>(E088) Fluid Resistance</b>			
<b><u>SAE Fluid No. 2, Blend 7700 70 hrs @ 392°F</u></b>			
Hardness Change, pts.	ASTM D471	-15 to +5	-8
Tensile Strength Change, %		-40	-12
Ultimate Elongation Change, %		-20	+7
Volume Change, %		+25	+17

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