



**COMPOUND DATA SHEET**  
Parker O-Ring & Engineered Seals Division (OES) North America

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**MATERIAL REPORT**

**Title:** Evaluation of Parker Compound VW894

**Elastomer Type:** Fluorocarbon (FKM)

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

**Specification:** ASTM D2000 M3HK910 A1-10 B37 B38 EF31 E078 Z1 Z2

**Color:** Brown

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

**Recommended For:** Mineral oil and grease, IRM 901 oil, IRM 902 oil, IRM 903 oil, nonflammable 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:** None

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>VW894</u>
Z1 = Hardness, Shore A, pts	ASTM D2240	90 ± 5	89
Tensile Strength, min. psi	ASTM D412	1450	1864
Z2 = Elongation min. %	ASTM D412	100	159
<b>Basic=Oil IRM903 Immersion Resistance, Test 70 hours. @302°F (150°C)</b>	ASTM D471		
Volume change, max. %		+10	1
<b>A1-10=Heat Resistance, Test 70 hrs @ 482 °F (250°C)</b>	ASTM D573		
Hardness Change, max. pts		+10	2
Tensile Strength Change, max. %		-25	-3
Elongation Change, max %		-25	-14
<b>B37=Compression Set Test Method B 22 Hrs. @ 347°F (175°C) Plied</b>	ASTM D395		
Percent of Original Deflection, max		30	25
<b>B38=Compression Set Test Method B 22 hrs @ 392°F (200°C) Plied</b>	ASTM D395		
Percent of Original Deflection, max		50	30
<b>EF31 = Fuel C Resistance, Test 70hrs. @ 73°F (23°C)</b>	ASTM D471		
Hardness Change, max. pts		± 5	-1
Tensile Strength, change, max. %		-25	-12
Elongation Change, max. %		-20	-5
Volume Change, max. %		0 to +10	3
<b>E078=OIL No. 101 Immersion Resistance, Test 70 Hrs @ 392°F (200°C)</b>			
Hardness Change, max. pts		-15 to +5	-4
Tensile Strength, Change, max %		-40	-19
Elongation Change, max. %		-20	-8
Volume Change, max. %		0 to +15	9