



# COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

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## MATERIAL REPORT

Test Date: 4/5/2016

Test number: 115287

**Title:** Evaluation of Parker Compound VX065-75

**Elastomer Type:** Fluorocarbon (FKM)

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

**Color:** Black

**Specification:** ASTM D2000 M2HK710 A1-10 B38 EF31 EO78 Z1 Z2 Z3 Z4  
Z1 = 75±5 durometer, Z2 = 120% min elongation  
Z3 = TR-10, Z4 = 1100 psi tensile strength

**Recommended Temperature Range:** -65°F to 400°F

**Recommended For:** Jet fuel, HTS oil, 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).

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as a felony under federal law."*

## REPORT DATA

<u>Original Physical Properties:</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Results</u>
(Z1) Hardness, Shore A, pts	ASTM D2240	75±5	75
(Z4) Tensile Strength, psi, Min	ASTM D412	1100 (7.5)	1658
(Z2) Ultimate Elongation, % Min	ASTM D412	120	174
<b><u>(A1-10) Heat Age</u></b>			
<b><u>70 hrs @ 482°F (250°C)</u></b>	ASTM D573		
Hardness Change, points, Max		+10	0
Tensile Strength Change, %, Max		-25	-12
Elongation Change, %, Max		-25	-13
<b><u>(B38) Compression Set:</u></b>			
<b><u>22 hrs @ 392°F (200°C) Plied</u></b>	ASTM D395		
Percent of Original Deflection, Max		50	5
<b><u>(Z3) Low Temperature</u></b>	ASTM D1329		
TR-10, °F (°C)		Report	-49 (-45)
<b><u>(EF31) Fluid Resistance</u></b>			
<b><u>Fuel C, 70 hrs @ 73°F (23°C)</u></b>	ASTM D471		
Hardness Change, points, Max		±5	0
Tensile Strength Change, %, Max		-25	-23
Elongation Change, %, Max		-20	-2
Volume Change, %, Max		0 to +10	9
<b><u>(EO78) Fluid Resistance</u></b>			
<b><u>Service Fluid 101</u></b>	ASTM D471		
<b><u>70 hrs @ 392°F (200°C)</u></b>			
Hardness Change, points, Max		-15 to +5	0
Tensile Strength Change, %, Max		-40	-14
Elongation Change, %, Max		-20	-13
Volume Change, %, Max		0 to +15	6