



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

Test Date: 3/5/2019

MTR #: 363720

Title: Evaluation of Parker Compound VM330-75

Elastomer Type: Fluorocarbon (FKM)

Purpose: To obtain typical test data.

Color: Black

Specification: ASTM D2000 M2HK 810 A1-10 B38 EF31 EO78 Z1
Z1 = 75±5 durometer

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

Recommended For: Mineral oil and grease, 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	74.6
Tensile Strength, psi, Min	ASTM D412	1450	2240
Ultimate Elongation, % Min	ASTM D412	150	220
<u>(A1-10) Heat Age - 70 hrs @ 482°F (250°C)</u>			
Hardness Change, pts.	ASTM D573	±10	2.5
Tensile Strength Change, %, Max		-25	-13
Elongation Change, %, Max		-25	-11
<u>Compression Set (Plied) - 22 hrs @ 347°F (175°C)</u>			
Percent of Original Deflect, Max	ASTM D395 Method B	35	5
<u>(B38) Compression Set (Plied) - 22 hrs @ 392°F (200°C)</u>			
Percent of Original Deflect, Max	ASTM D395 Method B	50	10
<u>(EF31) Fluid Resistance</u>			
	ASTM D471		
<u>Fuel C, 70 hrs @ 73°F (23°C)</u>			
Hardness, Shore A, pts		±5	-0.6
Tensile Strength, psi, Min		-25	-13
Ultimate Elongation, % Min		-20	-10
Volume Change, %		0 to +10	4
<u>(EO78) Fluid Resistance</u>			
	ASTM D471		
<u>No. 101 Test Fluid, 70 hrs @ 392°F (200°C)</u>			
Hardness, Shore A, pts		-15 to +5	-4.2
Tensile Strength, psi, Min		-40	-12
Ultimate Elongation, % Min		-20	-1
Volume Change, %		0 to +15	10
<u>Fluid Resistance</u>			
	ASTM D471		
<u>IRM 903 Test Fluid, 70 hrs @ 302°F (150°C)</u>			
Volume Change, %		+10	2