



COMPOUND DATA SHEET

Parker O-Ring Division, North America

MATERIAL REPORT

Report Number: 809211
Date: 7/6/2011

Title: Evaluation of Parker Compound VG286-80

Elastomer Type: Fluorocarbon (FKM)

Purpose: To obtain typical test data.

Specification: N/A

Color: Black

Recommended Temperature Range: -50°F to 400°F

Recommended For: Mineral oil and grease, IRM 901 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 (including high alcohol content), 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: N/A

REPORT DATA

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Test Results</u>
Hardness, Shore A, pts.	ASTM D2240	80
Tensile Strength, PSI	ASTM D412	2609
Ultimate Elongation, %	ASTM D412	161
Specific Gravity	ASTM D297	1.78
Heat Resistance		
<u>168 hrs. @ 392°F</u>		
Hardness Change, pts.	ASTM D865	+2
Tensile Strength Change, %		+14
Ultimate Elongation Change, %		-20
Weight Loss, %		0
Compression Set (Buttons)		
<u>70 hrs. @ 392°F</u>		
Percent of Original Deflection, Max	ASTM D395 Method B	8
Fluid Resistance		
<u>Distilled Water, 70 hrs @ 212°F</u>		
Hardness Change, pts.	ASTM D471	0
Tensile Strength Change, %		0
Ultimate Elongation Change, %		-1
Volume Change, %		+3
Fluid Resistance		
<u>Diesel # 2, 70 hrs @ 212°F</u>		
Hardness Change, pts.	ASTM D471	-4
Tensile Strength Change, %		-19
Ultimate Elongation Change, %		-3
Volume Change, %		+5
Fluid Resistance		
<u>Methanol, 70 hrs @ 75°F</u>		
Hardness Change, pts.	ASTM D471	-10
Tensile Strength Change, %		-38
Ultimate Elongation Change, %		-28
Volume Change, %		+24
Fluid Resistance		
<u>Efron 818, 70 hrs @ 212°F</u>		
Hardness Change, pts.	ASTM D471	-5
Tensile Strength Change, %		-7
Ultimate Elongation Change, %		+4
Volume Change, %		+6

Fluid Resistance

Zinc Bromide Brine, 70 hrs @ 212°F

Hardness Change, pts.

Tensile Strength Change, %

Ultimate Elongation Change, %

Volume Change, %

Test

Method

ASTM D471

Test

Results

0

+3

-1

+2

Low Temperature Resistance

TR-10, temperature °F

ASTM D1329

-31

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