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, aliphaic 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

Parker O-Ring Division
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Lexington, Ky 40509
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REPORT DATA

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

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Fluid Resistance	Test	Test
Zinc Bromide Brine, 70 hrs @ 212°F	**Method**	**Results**
Hardness Change, pts.	ASTM D471	0
Tensile Strength Change, %		+3
Ultimate Elongation Change, %		-1
Volume Change, %		+2
Low Temperature Resistance		
TR-10, temperature °F	ASTM D1329	-31

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"The recording of false, fictitious, or fruaudulent statements or entries in this report may be punishable as a felony under federal law."

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