



# COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division (OES), North America

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## MATERIAL REPORT

**Title:** Evaluation of Parker Compound HF359-80

**Elastomer Type:** HiFluor Fluorocarbon Rubber (FKM)

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

**Specification:** General Information

**Color:** Beige

**Recommended Temperature Range:** -15°F to 400°F (-26°C to 204°C)

**Recommended For:** Outstanding chemical resistance, low outgassing, low particle generation, etch resistance, wet bench chemistries, applications where FFKM may be overengineered.

**Not Recommended For:** Fluorinated oils, Steam, Organic Acetates, Refrigerants

**Additional Approvals:**

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### REPORT DATA

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Test Results</u>
Hardness, Shore A, pts.	ASTM D2240	80 +/- 5	80
Tensile Strength, psi	ASTM D1414	750	2230
Ultimate Elongation, %	ASTM D1414	125	248
Modulus @ 100% Elongation, psi	ASTM D1414	Report	812
Specific Gravity	ASTM D297	1.94 +/- 0.03	1.94
 <b><u>Compression Set (Plied), 70 hrs. @ 392°F</u></b>			
Percent of Original Deflection, Max	ASTM D395 Method B		29.0
 <b><u>Chemical Compatibility</u></b>			
<b><u>Piranha Fluid, 168 hrs @ R.T</u></b>			
Hardness Change, pts.	ASTM D471		
	ASTM D2240		-3
Tensile Strength Change, psi	ASTM D412		+6
Ultimate Elongation Change, %	ASTM D412		+5
Modulus at 100% Elongation Change, psi	ASTM D412		+5
Volume Change, %			1
 <b><u>Chemical Compatibility</u></b>			
<b><u>SC-1 Fluid, 24 hrs @ 70°C</u></b>			
Hardness change, pts.	ASTM D471		
	ASTM D2240		-1
Tensile Strength Change, psi	ASTM D412		-27
Ultimate Elongation Change, %	ASTM D412		-16
Modulus at 100% Elongation Change, psi	ASTM D412		+3
Volume Change, %			1
 <b><u>Chemical Compatibility</u></b>			
<b><u>SC-2 Fluid, 24 hrs @ 70°</u></b>			
Hardness Change, pts	ASTM D471		
	ASTM D2240		-5
Tensile Strength Change, psi	ASTM D412		+16
Ultimate Elongation Change, %	ASTM D412		+14
Modulus at 100% Elongation Change	ASTM D412		+2
Volume Change, %			0

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