

COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

LTR: 93341

<u>Title:</u>	Evaluation of Parker Compound FF400-85	
Elastomer Type:	Perfluoroelastomer (FFKM) FF400-85	
Purpose:	To obtain typical test data	
<u>Color:</u>	Black	
Recommended Temperature Range:	-40°F to 525°F	
<u>Recommended For:</u>	Aliphatic and aromatic hydrocarbons, chlorinated hydrocarbon, polar solvents (aceton, methylethylketone, dioxane), inorganic and organic acids, water and steam, high vacuum with minimal weight loss, petroleum oil, wet / dry chlorine	
Not Recommended For:	Fluorinated refrigerants, uranium hexafluoride, molten metals, gaseous alkali metals	
<u>Certifications:</u>	ISO 23936-2 RGD; ISO 23936-2 10% H2S Aging; NACE TM0187 50% H2S; TOTAL GS EP PVV 142 RGD	



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Original Physical Properties	<u>Test Method</u>	<u>Results</u>
Hardness, Shore A, pts	ASTM D2240	82
Tensile Strength, psi, Min	ASTM D1414	1354
Ultimate Elongation, % Min	ASTM D1414	188
Modulus at 100% Elongation, psi	ASTM D1414	844
Specific Gravity	ASTMD D297	1.85
Compression Set - 70 hrs @ 200°C		
Percent of Original Deflect, Max	ASTM D395 Method B	25
Compression Set - 70 hrs @ 230°C		
Percent of Original Deflect, Max	ASTM D395 Method B	27
Compression Set - 70 hrs @ 250°C		
Percent of Original Deflect, Max	ASTM D395 Method B	29
Fluid Resistance		
<u>Steam, (70 hrs @ 121°C)</u>		
Hardness Change, Shore A, pts	ASTM D471	+2
Tensile Strength Change, %		+11
Ultimate Elongation Change, %		+5
Modulus at 100% Elongation, psi		+9
Volume Change, %		0
Fluid Resistance		
Diesel #2 (70 hrs @ 100°C)		-
Tensile Strength Change %	ASTIVI D471	-5 -25
Illtimate Elongation Change %		-23
Modulus at 100% Flongation Insi		-23
Volume Change %		-23
Volume change, /		
Fluid Resistance		-58
Methanol #2 (70 hrs @ 23.9°C)		-
Hardness Change, Shore A, pts	ASTM D471	-2
Tensile Strength Change, %		-14
Ultimate Elongation Change, %		+23
Modulus at 100% Elongation, psi		-17
Volume Change, %		+1
Low Temperature		20
IK-10, °C	ASTM D1329	-30
Tg by DSC, °C	ASTM E1356	-35

5/10/2013