Compound Data Sheet
O-Ring Division United States

MATERIAL REPORT

Date: 12/17/2009

TITLE: General evaluation of Parker base-resistant fluorocarbon compound VP104-85.

PURPOSE: Test compound VP104-85-75 for resistance to a wide range of chemicals.

CONCLUSION: Parker's base-resistant fluorocarbon compound VP104-85 offers good resistance to oils, alcohols, and aggressive bases.

Temperature Range: +10 to 400°F

Recommended For: Oils and greases made from petroleum or synthetic hydrocarbon base stock, silicone fluids, hot water, bases, alcohols, ozone and weathering.

Not Recommended For: Aromatic hydrocarbon fuels and solvents, chlorinated hydrocarbon solvents, low temperature applications.

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Kentucky 40509
(859) 269-2351

REPORT DATA

Date: 12/17/2009
Batch No.: 80045946
Compound: VP104-85

Original Physical Properties	ASTM Test Method	Results (Platens)
Hardness, Shore A	D2240	90
Tensile Strength, psi	D412	3151
Elongation at Break, %	D412	132
Modulus @ 100% Elongation, psi	D412	2196
Specific Gravity	D297	1.84
Dry Heat Resistance		
168 Hrs. @ 392° F		
Hardness Change, pts.	D471	+2
Tensile Strength Change, %	D471	+6
Elongation Change, %	D471	-59
Weight loss, % max	D471	-1
Compression Set		
70 Hrs. @ 392° F		
Loss of Original Deflection, %	D395 Method B	56
Fluid Resistance, De-Ionized Water		
70 Hrs. @ 212° F		
Hardness Change, pts.	D471	-3
Tensile Strength Change, %	D471	-5
Elongation Change, %	D471	+5
Volume Change, %	D471	+2
Fluid Resistance, #2 Diesel		
70 Hrs. @ 212° F		
Hardness Change, pts.	D471	0
Tensile Strength Change, %	D471	-27
Elongation Change, %	D471	-7
Volume Change, %	D471	+4
Fluid Resistance, Methanol		
70 Hrs. @ 75° F		
Hardness Change, pts.	D471	-1
Tensile Strength Change, %	D471	-25
Elongation Change, %	D471	+2
Volume Change, %	D471	+3
Fluid Resistance, Erifon 818		
70 Hrs. @ 212° F		
Hardness Change, pts.	D471	-2
Tensile Strength Change, %	D471	-19
Elongation Change, %	D471	+2
Volume Change, %	D471	+6

Fluid Resistance, Zinc Bromide Brine

70 Hrs. @ 212° F

Hardness Change, pts.	D471	+2
Tensile Strength Change, %	D471	+6
Elongation Change, %	D471	+2
Volume Change, %	D471	+1