Compound Data Sheet
O-Ring Division United States

MATERIAL REPORT

Date: 7/12/2006

TITLE: General evaluation of Parker low-swell fluorocarbon compound V1274-80.

PURPOSE: Test compound V1274-80 for resistance to various acids and bases.

CONCLUSION: Parker's low-swell fluorocarbon compound V1274-80 offers excellent resistance to acids and hot water.

Temperature Range: -15 to 400°F

Recommended For: Oils and greases made from petroleum or synthetic hydrocarbon base stock, silicone fluids, aromatic fuels and solvents, chlorinated hydrocarbon solvents, water, steam, alcohols, concentrated strong acids, ozone and weathering.

Not Recommended For: Automotive brake fluid, commercial aircraft hydraulic fluid, polar solvents (MEK, acetone, etc.)

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

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Compound: V1274-80

Original Physical Properties	ASTM Test Method	Results (Platen)
Hardness, Shore A	D2240	82
Tensile Strength, psi	D412	1845
Elongation at Break, %	D412	257
Modulus @ 100% Elongation, psi	D412	626
Fluid Resistance, Concentrated Sulfuric Acid		
70 Hrs. @ 73° F		
Hardness Change, pts.	D471	+1
Tensile Strength Change, %	D471	-16
Elongation Change, %	D471	-12
Modulus @ 100% change, %	D471	-7
Volume Change, %	D471	+2
Compression set, %	D395 Method B	32
Fluid Resistance, Concentrated Nitric Acid		
70 Hrs. @ 73° F		
Hardness Change, pts.	D471	+1
Tensile Strength Change, %	D471	-3
Elongation Change, %	D471	+17
Modulus @ 100% change, %	D471	-18
Volume Change, %	D471	+10
Compression set, %	D395 Method B	36
Fluid Resistance, Concentrated Ammonium Hydroxide		
168 Hrs. @ 73° F		
Hardness Change, pts.	D471	+2
Tensile Strength Change, %	D471	-9
Elongation Change, %	D471	+12
Modulus @ 100% change, %	D471	-12
Volume Change, %	D471	+4
Compression set, %	D395 Method B	35
Fluid Resistance, Dilute Phosphoric Acid		
168 Hrs. @ 73° F		
Hardness Change, pts.	D471	+3
Tensile Strength Change, %	D471	+13
Elongation Change, %	D471	+27
Modulus @ 100% change, %	D471	-3
Volume Change, %	D471	0
Compression set, %	D395 Method B	35
Fluid Resistance, Concentrated Hydrochloric Acid		
168 Hrs. @ 73° F		
Hardness Change, pts.	D471	+1
Tensile Strength Change, %	D471	+18
Elongation Change, %	D471	+26
Modulus @ 100% change, %	D471	-1
Volume Change, %	D471	+3
Compression set, %	D395 Method B	19

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Fluid Resistance, Distilled Water
168 Hrs. @ 212° F

Hardness Change, pts.	D471	+3
Tensile Strength Change, %	D471	-27
Elongation Change, %	D471	-6
Modulus @ 100% change, %	D471	-16
Volume Change, %	D471	+5
Compression set, %	D395 Method B	54