COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division United States

MATERIAL REPORT

DATE: 9/9/2016
LTR: 117745 & 110770

Title: Evaluation of Parker compound FF504-80

Elastomer Type: Perfluoroelastomer (FFKM)

Purpose: To obtain typical test data

Specification: ASTM D2000 M1KK811 Z1 Z2 Z3 Z4
Z1 = report heat aging of 70 hrs @ 250°C
Z2 = report compression set 70 hrs @ 135°C (0.139" cross section)
Z3 = report compression set 70 hrs @ 200°C (0.139" cross section)
Z4 = report compression set 70 hrs @ 230°C (0.139" cross section)

Color: Green

Recommended Temperature Range: 5°F to 525°F

Recommended For: Oils and greases made from petroleum or synthetic hydrocarbon base stock, silicone fluids, acids, bases, hot water, steam, alcohols, ozone and weathering, aromatic hydrocarbon fuels and solvents, chlorinated hydrocarbon solvents, aggressive polar solvent (MEK, acetone, etc.), automotive brake fluid, aircraft hydraulic fluids.

Not recommended For: Fluorinated refrigerant gases, perfluorinated ether fluids, molten alkali metals.

Laboratory Test Report

Original Physical Properties	**Test Results**	**Spec Limits**	**Test Results**
Hardness, Shore A, pts.	ASTM D2240	80 ± 5	80
Tensile Strength, Mpa, min.	ASTM D412	11	23
Ultimate Elongation, % min	ASTM D412	125	224
Compression Set (1/2" Buttons)			
22 hrs. @ 200°C (392°F)	ASTM D395		
Percent of Original Deflection, max	Method B	25	11
Compression Set (0.139" cross section)	ASTM D395		
70 hrs. @ 135°C (275°F)	Method B		
Percent of Original Deflection, max			20
70 hrs. @ 200°C (392°F)	Method B		
Percent of Original Deflection, max			23
70 hrs. @ 230°C (446°F)	Method B		
Percent of Original Deflection, max			40
Dry Heat Resistance			
70 hrs. @ 250°C (482°F) (Z1)			
Hardness Change, Shore A pts.	ASTM D573	± 15	-1
Tensile Strength Change, %		± 30	+13
Ultimate Elongation Change, % max.		-50	-3
Fluid Immersion			
IRM 903 Oil, 70 hrs, @ 150°C (302°F)			
Volume Change, % max.	ASTM D471	+10	+2