Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KK1930
DATE: 09/30/87

TITLE: Evaluation of Parker Compound V0894-90 to ASTM D2000 3HK920 A1-10 B38 EF31 E078

PURPOSE: To determine if V0894-90 meets the requirements.

CONCLUSION: Compound V0894-90 meets the ASTM D2000 callout.

Recommended temperature limits: -15^0F to 400^0F

Recommended For

Petroleum, mineral, and vegetable oils
Silicone fluids
Aromatic hydrocarbons (benzene, toluene)
Chlorinated hydrocarbons
High vacuum
Ozone, weather, and aging resistance

Not Recommended For
Hot water and steam
Auto and aircraft brake fluids
Amines
Ketones
Low molecular weight esters and ethers

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

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	ASTM D2000 **3HK920 A1-10** **B38 EF31 E078** Pass / Fail Limits	**V0894-90** 2-214 O-Ring Results
Basic Physical Properties		
Hardness	90 +/- 5	86
Tensile Strength, psi min	2031	2183
Elongation, % min	100	134
100% Modulus, psi	Not required	1567
Specific Gravity	Not required	2.30
A1-10 Heat Aging, 70 HRS @ 250^{0}C		
Hardness Change, pts max	+10	+4
Tensile Change, % max	-25	-15.4
Elongation Change, % max	-25	-9.7
B38 Compression Set, 22 HRS @ 200^{0}C		
% of Original Deflection, max	30	14.3
EF31, ASTM Ref. Fuel C, 70 HRS @ 23^{0}C		
Hardness Change, pts	+/-5	-1
Tensile Change, % max	-25	-24.4
Elongation Change, % max	-20	-14.9
Volume Change, %	0 to +10	+2.5
E078, Fluid Resistance, #101 Oil, 70 HRS @ 200^{0}C		
Hardness Change, pts	-15 to +5	-3
Tensile Change, % max	-40	-12.3
Elongation Change, % max	-20	-5.2
Volume Change, %	0 to +15	+9.2
Fluid Resistance, Stauffer 7700, 70 HRS @ 200^{0}C		
Hardness Change, pts		-5
Tensile Change, %		-12.3
Elongation Change, %		-5.2
Volume Change, %		+14.4
Basic Oil Immersion, ASTM #3 Oil, 70 HRS @ 150^{0}C		
volume change		+2.1
Low Temperature Resistance, 5 HRS @ -25^{0}C		
Figure 8 Bend		Pass
Low Temperatrue Resistance,		
TR-10 ^{0}C		-19

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