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Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KK1476
DATE: 04/10/82

TITLE: Evaluation of Parker Compound S0604-70 to ASTM D2000
7GE707 A19 B37 E16 F19 G11 L14

PURPOSE: To determine if S0604-70 meets the callout.

CONCLUSION: Compound S0604-70 meets the ASTM D2000 callout.

Recommended temperature limits: -65⁰F to 450⁰F

Recommended For

Dry heat

Some petroleum oils

Moderate water resistance

Fire resistant hydraulic fluids (HFD-R and HFD-S)

Ozone, aging, and weather resistance

Low temperature

Not Recommended For

Ketones

Acids

Silicone oils

Auto and aircraft brake fluid

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	ASTM D2000 7GE707 A19 B37 E16 F19 G11 L14 <u>Pass / Fail Limits</u>	S0604-70 <u>Slab Results</u>
<u>Basic Physical Properties</u>		
Hardness	70 +/- 5	67
Tensile Strength, psi min.	700	889
Elongation, %	150	160
<u>ASTM D573 Heat Aging, 70 H @ 437°F</u>		
Hardness Change, pts max	+10	+3
Tensile Change, % max	-25	-0.3
Elongation Change, % max	-30	-28.1
<u>Compression Set ASTM D395, 22 HRS @ 347°F, plies</u>		
% of Original Deflection, max	30	15.0
<u>Fluid Immersion, ASTM #1 Oil, 70 HRS @ 302°F</u>		
Hardness Change, pts	0 to -15	-5
Tensile Change, % max	-20	-7.9
Elongation Change, % max	-20	-12.5
Volume Change, %	0 to +15	+3.2
<u>Fluid Immersion, ASTM #3 Oil, 70 HRS @ 302°F</u>		
Hardness Change, pts max	-40	-17
Volume Change, % max	+60	+32.3
<u>Fluid Immersion ASTM D471 Water 70 HRS. @ 212°F</u>		
Hardness Change, pts. max.	+/-5	+1
Volume Change, % max.	+/-5	-0.4
<u>Tear Resistance, ASTM D624 Die B, ppi. Min.</u>	50	98
<u>Low Temperature Test ASTM D746 Procedure B 3 min. @ -67°F</u>	Pass	Pass