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Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KK2206
DATE: 06/19/96

TITLE: Evaluation of Parker Compound S1224-70 to ASTM D2000
7GE705 A19 B37 EA14 EO16 E036 F19 G11

PURPOSE: To determine if S1224-70 meets the callout.

CONCLUSION: Compound S1224-70 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 7GE705 A19 B37 EA14 EO16 E036 F19 G11 Pass / Fail Limits	S1224-70 Slab Results
<u>Basic Physical Properties</u>		
Hardness	70 +/- 5	69
Tensile Strength, psi min	725	1204
Elongation, % min	150	265
<u>ASTM D573 Heat Aging, 70 HRS @ 225°C</u>		
Hardness Change, pts max	+10	+6
Tensile Change, % max	-25	-14
Elongation Change, % max	-30	-26
<u>Compression Set ASTM D395, 22 HRS @ 347°F, plies</u>		
% of Original Deflection, max	30	23
<u>Fluid Immersion, ASTM #1 Oil, 70 HRS @ 150°C</u>		
Hardness Change, pts	0 to -15	-9
Tensile Change, % max	-20	+10
Elongation Change, % max	-20	+3
Volume Change, %	0 to +15	+4
<u>Fluid Immersion, ASTM #3 Oil, 70 HRS @ 302°F</u>		
Hardness Change, pts max	-40	-19
Volume Change, % max	+60	+35
<u>Fluid Immersion ASTM D471 Water 70 HRS. @ 212°F</u>		
Hardness Change, pts. max.	+/-5	0
Volume Change, % max.	+/-5	0
<u>Tear Resistance, ASTM D624, Die B</u>		
kN/M, min	9	14
<u>Low Temperature Brittleness Test</u>		
ASTM D2137, Method A		
3 min. @ -55°C	Pass	Pass