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Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KK0922
DATE: 12/04/78

TITLE: Evaluation of High Temperature Parker Compound S0455-70

To ASTM D200 7GE707 A19 B37 E16 F19 L14

PURPOSE: To determine if S0455-70 meets the callout.

CONCLUSION: Compound S0455-70 meets the ASTM D2000 callout.

Recommended temperature limits: -65⁰F to 450/500⁰F

Recommended For

Extreme 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

Parker O-Ring Division
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REPORT DATA

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	ASTM D2000 7GE707 A19 B37 E16 F19 G11 L14 <u>Pass / Fail Limits</u>	S0455-70 <u>Slab Results</u>	S0455-70 <u>2-214 O-Rings</u>
<u>Basic Physical Properties</u>			
Hardness	70 +/- 5	72	70
Tensile Strength, psi min.	700	956	785
Elongation, % min.	150	152	197
Tear (Die B) min.	50	57	--
<u>ASTM D573 Heat Aging, 70 H @ 437°F</u>			
Hardness Change, pts max	+10	-1	+2
Tensile Change, % max	-25	-8.9	-5.0
Elongation Change, % max	-30	-19.3	-5.0
<u>Compression Set ASTM D395,</u> <u>22 HRS @ 347°F</u>			
% of Original Deflection, max	30	7.7	5.8
<u>Fluid Immersion, ASTM #1 Oil,</u> <u>70 HRS @ 302°F</u>			
Hardness Change, pts	-40	-24	-11
Volume Change, %	+60	+36.3	+34.8
<u>Fluid Immersion ASTM D471 Water</u> <u>70 HRS. @ 212°F</u>			
Hardness Change, pts. max.	+/-5	-2	+1
Volume Change, % max.	+/-5	+0.04	-0.03
<u>Low Temperature Test ASTM D746</u> <u>Procedure B</u> <u>3 min. @ -67°F</u>			
	Pass	Pass	--