



# MATERIAL REPORT

REPORT NUMBER: KK1903A

DATE: 01/05/88

**TITLE:** Evaluation of Parker Compound S1138-70 per FDA requirements.  
**PURPOSE:** To determine if S1138-70 meets the requirements and obtain general data.  
**CONCLUSION:** Compound S1138-70 meets the requirements.

Recommended temperature limits: -60<sup>0</sup>F to 400<sup>0</sup>F

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



### REPORT DATA

Report Number: KB4403

	<b>S1138-70</b> <b>Platen Results</b>
<u>Basic Physical Properties</u>	
Hardness	70
Tensile Strength, psi min	1025
Elongation, %	175
Modulus @ 100%, psi	675
Specific Gravity	1.41
<u>Fluid Immersion, Butteroil,</u> <u>22 HRS @ 158<sup>o</sup>F</u>	
Hardness Change, pts	-4
Weight Change, %	+0.6
Volume Change, %	+0.8
<u>Fluid Immersion, Water,</u> <u>22 HRS @ 158<sup>o</sup>F</u>	
Hardness Change, pts	-1
Weight Change, %	+1.1
Volume Change, %	+1.3
<u>Temperature Retraction</u>	
TR10 <sup>o</sup> F	-41
<u>Hexan Extraction</u>	
7 HRS @ 154 <sup>o</sup> F, mg/in <sup>2</sup>	Pass
2 HRS @ 154 <sup>o</sup> F, mg/in <sup>2</sup>	Pass