



# MATERIAL REPORT



REPORT NUMBER: KK1903A  
DATE: 01/05/88

CONTACT US

**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

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	<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>0</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>0</sup>F</u>	
Hardness Change, pts	-1
Weight Change, %	+1.1
Volume Change, %	+1.3
<u>Temperature Retraction</u>	
TR10 <sup>0</sup> F	-41
<u>Hexan Extraction</u>	
7 HRS @ 154 <sup>0</sup> F, mg/in <sup>2</sup>	Pass
2 HRS @ 154 <sup>0</sup> F, mg/in <sup>2</sup>	Pass