



MATERIAL REPORT

REPORT NUMBER: KK2190
DATE: 04/06/93

TITLE: Evaluation of Parker Compound S0802-40 to ASTM D2000
M2GE405 A19 B37 EA14 E016 F19

PURPOSE: To determine if S0802-40 meets the callout.

CONCLUSION: Compound S0802-40 meets the ASTM D2000 callout.

Recommended temperature limits: -60⁰F to 400⁰F

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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	ASTM D2000 M2GE405 A19 B37 EA14 E016 F19 Pass / Fail Limits	S0802-40 Platen Results
<u>Basic Physical Properties</u>		
Hardness	35 - 45	39
Tensile Strength, Mpa (psi)	5 (725)	5.5 (802)
Elongation, %	300	448
<u>A19 ASTM D573 Heat Aging, 70 H @ 225°C</u>		
Hardness Change, pts max	+10	+3
Tensile Change, % max	-25	+2
Elongation Change, % max	-30	+7
<u>B37 Compression Set, ASTM D395, 22 HRS @ 175°C</u>		
% of Original Deflection, max	25	14
<u>E016 Fluid Immersion, ASTM #1 Oil, 70 H @ 150°C</u>		
Hardness Change, pts	0 to -10	-6
Tensile Change, % max	-30	+1
Elongation Change, % max	-30	+15
Volume Change, %	0 to +15	+4
<u>EA14 Fluid Immersion, Water PER ASTM D471, 70 H @ 150°C</u>		
Hardness Change, pts	+/- 5	0
Volume Change, %	+/- 5	-1
<u>Fluid Immersion, ASTM #3 Oil, 70 HRS @ 150°C</u>		
Volume Change, %	+ 60	+49
<u>F19 Low Temp Brittleness D2137 3 MIN @ -55°C</u>	Pass	Pass