



# MATERIAL REPORT

REPORT NUMBER: KT1557

DATE: 2/15/1983

**TITLE:** Evaluation of Parker Compound E0740-75 ASTM D2000 5CA  
715 A25, B35, F17, L14, Z1, Z2, Z3

**PURPOSE:** To document conformance.

**CONCLUSION:** Parker Compound E0740-75 is capable of meeting these requirements.

Recommended temperature limits: -70 to +250 F

Recommended For  
Weather/Ozone  
Auto and Aircraft Brake Fluids  
Steam/Water  
Dilute Acids and Bases  
Ketones and Alcohols

Not Recommended For  
Petroleum Oils  
Mineral Oil Products



## REPORT DATA

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	ASTM D2000 5CA 715 A25, B35, F17, L14, Z1, Z2, Z3 Pass / Fail Limits	Compound E0740-75
<u>Basic Physical Properties</u>		
Hardness, Shore A, pts.	65 – 75	72
Tensile Strength, psi.	1500 min	1950
Elongation, %	150 min	165
<u>Heat Aging, 70 H @ 257°F</u>		
Hardness Change, pts	± 15	- 2
Tensile Change, %	± 30	+ 6
Elongation Change, %	-50 max	+ 9
<u>Fluid Immersion, Water Resistance, 70 H @ 212 F</u>		
Hardness Change, pts	N.R.	+ 2
Volume Change, %	± 5	+ 1.4
<u>Heat Aged, ASTM D865, 70 H @ 257° F</u>		
Hardness Change, pts	+ 10 max	-2
Tensile Change, %	- 20 max	+ 6
Elongation Change, %	- 40 max	+ 9
<u>Compression Set, 22 H @ 257 °F</u>		
% of Original, Deflection	50 max	3.3
<u>Compression Set, 22 H @ 212°F</u>		
% of Original, Deflection	60 max	8.0
<u>Low Temperature Brittleness, Procedure B</u>		
3 min. @ -40 °F	Pass	Pass
<u>Z1, Original Elongation Shall Be 150% Min.</u>		165
<u>Z2, Durometer Shall Be 75 ± 5</u>		72
<u>Z3, Material Shall Be Sulfur Free, Peroxide Cured, Contained Less than 5% Plasticizer and, therefore, be suitable for Nuclear Radiation Service</u>		Pass

All tests were run on discs or dumbbells cut from .075 thick platens per ASTM D412.