



MATERIAL REPORT

REPORT NUMBER: KK1728A

DATE: 05/01/85

- TITLE:** Evaluation of Parker Compound E0603-70 to ASTM D2000 M5CA 710, A25, B35, EA14, F18, Z1, Z2, Z3, Z4, Z5, Z6, Z7, Z8.
- PURPOSE:** To verify Parker Compound E0603-70 meets all phases of the specification.
- CONCLUSION:** Parker Compound E0603-70 meets all phases of the specification.

Recommended temperature limits: -70°F to 250 °F

Recommended For

Hot water and steam
Glycol based brake fluid
Many organic and inorganic acids
Cleaning agents, soda and potassium alkalis
Phosphate –ester based hydraulic fluids
Silicone oil and grease
Polar solvents
Ozone, Aging and weather resistance

Not Recommended For

Mineral oil products



Compound Data Sheet

Parker O-Ring Division United States

REPORT DATA

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<u>ORIGINAL PROPERTIES</u>	ASTM D2000 M5CA 710 A25,B35,EA14,F18,Z1, <u>A2,Z3,Z4,Z5,Z6,Z7,Z8</u>	COMPOUND E0603-70 <u>PLATENS</u>
Hardness, Shore A, pts.	70 ± 5	73
Tensile Strength, psi. min.	1450	2282
Elongation, % min.	200	235
A25, HEAT AGE <u>70 HRS. @ 257°F</u>		
Hardness Change, pts., max.	+10	+4
Tensile Change, %, max.	-20	-6.4
Elongation Change, %, max.	-40	-2.1
B35, COMPRESSION SET, <u>22 HRS. @ 257°F</u>		
% of Original Deflection	50% max.	8.25%
EA14 FLUID IMMERSION, WATER, <u>70 HRS. @ 212°F</u>		
Volume Change, %	± 5	+ .8
F17,* LOW TEMPERATURE BRITTLENESS <u>ASTM D2137</u>		
3 min. @ -40°F	Pass	Pass
Z1, <u>TR-10</u>	Report (-50°F)	-59.0°F
Z2, <u>TR-30</u>	Report (-25°F)	-32.1°F
Z3, <u>TR-50</u>	Report (-18°F)	-19.4°F
Z4, <u>ORIGINAL PHYSICALS</u>		
Tensile Strength, psi., min.	1800	2282
Z5, RESISTANCE TO OZONE EXPOSURE, METHOD B, 50 MPa <u>PARTIAL PRESSURE</u>		
	Pass	Pass

* revised per new specification



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	ASTM D2000 M5CA 710 A25,B35,EA14,F18,Z1, <u>A2,Z3,Z4,Z5,Z6,Z7,Z8</u>	COMPOUND E0603-70 <u>PLATENS</u>
Z6, <u>TEAR RESISTANCE, psi., min.</u>		
Die B	150	176
Die C	150	169
Z7, <u>HEAT AGE, 70 HRS. @ 257°F</u>		
Tensile Change, %, max.	-10	- 6.4
Elongation Change, % max.	-20	- 2.1
Z8, <u>COMPRESSION SET, 22 HRS. @ 257°F</u>		
% of Original Deflection	15% max.	8.25%