



## 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



**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



**Compound Data Sheet**  
Parker O-Ring Division United States

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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%