



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

REPORT NUMBER: KK1793
4/08/2013

Title: Evaluation of Parker Compound

Elastomer Type: Chloroprene (CR) C0873-70

Purpose: To obtain typical test data.

Specification: ASTM D2000 M2BE710 A14 B14 EO14 EO34

Color: Black

Recommended Temperature Range: -35°F to 225°F

Recommended For: Paraffin based mineral oil with low DPI, silicone oil and grease, water and water solvents at lower temperatures, refrigerants, ammonia, carbon dioxide, improved ozone, weathering and aging resistance when compared with nitrile. Limited compatibility with naphthalene based mineral oil (IRM 902 and IRM 903), glycol based brake fluids

Not Recommended For: Aromatic hydrocarbons (benzene), chlorinated hydrocarbons (trichloroethylene), and polar solvents (ketones, esters, ethers).

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REPORT DATA

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Results</u>
Hardness, Shore A, pts.	ASTM D2240	70 ± 5	72
Tensile Strength, PSI (Mpa)	ASTM D412	1450 (10)	1832
Ultimate Elongation, %	ASTM D412	250	293

(A14) Heat Age

70 hrs. @ 212°F

Hardness Change, pts.	ASTM D573	+15	+6
Tensile Strength Change, %		- 15	- 14
Ultimate Elongation Change, %		- 40	- 24

(B14) Compression Set

22 hrs. @ 212°F

Percent of Original Deflection, Max	ASTM D395 Method B	100	18
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(EO14) Fluid Resistance

IRM 901, 70 hrs @ 212°F

Hardness Change, pts.	ASTM D471	± 10	- 3
Tensile Strength Change, %		- 30	+2
Ultimate Elongation Change, %		- 30	- 22
Volume Change, %		-10 to +15	+9

(E034) Fluid Resistance

IRM 903, 70 hrs @ 212°F

Tensile Strength Change, %		-50	-37
Ultimate Elongation Change, %		-40	-27