



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division United States

MATERIAL REPORT

Report Number: 117762

9/27/2016

Title: Evaluation of Parker Compound

Elastomer Type: Chloroprene (CR) C1278-80

Purpose: To obtain typical test data.

Specification: ASTM D2000 M2BC810 A14 EO14 EO34

Color: Black

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

Recommended For: Paraffin based material 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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"The recording of false, fictitious, or fraudulent statements or entries in this report may be punishable as a felony under federal law."

REPORT DATA

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Results</u>
Hardness, Shore A, pts.	ASTM D2240	80 ± 5	80
Tensile Strength, PSI (Mpa)	ASTM D412	1450 (10)	2010
Ultimate Elongation, %	ASTM D412	100	149

(A14) Heat Age

70 hrs. @ 212°F

Hardness Change, pts.	ASTM D573	+15	0
Tensile Strength Change, %		- 15	-1
Ultimate Elongation Change, %		- 40	-5

(B14) Compression Set

22 hrs. @ 212°F

Percent of Original Deflection, Max	ASTM D395 Method B	35	16
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(EO14) Fluid Resistance

IRM 901, 70 hrs. @ 212°F

Hardness Change, pts.	ASTM D471	±10	0
Tensile Strength Change, %		- 30	0
Ultimate Elongation Change, %		- 30	- 4
Volume Change, %		-10 to +15	- 1

(E034) Fluid Resistance

IRM 903, 70 hrs @ 212°F

Hardness Change, pts		report	- 12
Tensile Strength Change, %		- 70	- 37
Ultimate Elongation Change, %		- 55	- 35
Volume Change, %		+120	+32