COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

Report Number: 118767
Test Date: 12/1/2016
Report Date: 7/26/2017

Title: Evaluation of Parker Compound

Elastomer Type: Chloroprene (CR) CL172-70

Purpose: To obtain typical test data.

Specification: ASTM D2000 M2BC710 A14 B14 EO14 EO34 F17

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).

REPORT DATA

Original Physical Properties	**Test Method**	**Spec Limits**	**Test Results**
Hardness, Shore A, pts.	ASTM D2240	70±5	67
Tensile Strength, PSI (MPa)	ASTM D412	1450 (10)	2610 (18)
Ultimate Elongation, %	ASTM D412	250	296
100% Modulus, PSI (MPa)	ASTM D412	Report	580 (4)
Specific Gravity	ASTM D297	1.43	1.43
(B14) Compression Set			
22 hrs. @ 212°F (100°C)	ASTM D395		
Percent of Original Deflection, max	Method B	35	10
(A14) Heat Age			
70 hrs. @ 212°F (100°C)			
Hardness Change, pts.	ASTM D573	+15	+4
Tensile Change, %		-15	-1
Elongation Change, %		-40	0
(EO14) Fluid Immersion, IRM 901			
70 hrs. @ 212°F (100°C)			
Hardness Change, pts.	ASTM D471	±10	-1
Tensile Change, %		-30	-4
Elongation Change, %		-30	-14
Volume Change, %		-10 to +15	-2
(EO34) Fluid Immersion, IRM 903			
70 hrs. @ 212°F (100°C)			
Tensile Change, %	ASTM D471	-70	-24
Elongation Change, %		-55	-22
Volume Change, %		+120	+47
(F17) Low Temperature Brittleness			
Nonbrittle after 3 min. @ -40°F (-40°C)	ASTM D2137	Pass	Pass