COMPOUND DATA SHEET

MATERIAL REPORT

LTR Report Number: 85371
Date: 02/02/2012

Title: Evaluation of Parker Compound N1470-70

Elastomer Type: Acrylonitrile-Butadiene (NBR)

Purpose: To obtain typical test data.

Specification: ASTM D2000 M2BG714 B14 B34 EA14 EF11 E014 E034 Z1 (Specific Gravity) Z2 (TR-10)

Color: Black

Recommended Temperature Range: -40°F to 225°F

Recommended For: Aliphatic hydrocarbons (propane, butane, petroleum oil, mineral oil and grease, diesel fuel, fuel oils) vegetable oils, mineral oils, greases, HFA, HFB, and HFC hydraulic fluids, water (up to 212°F), salt & alkali solutions, and dilute acids

Not Recommended For: Fuels of high aromatic content, aromatic hydrocarbons (benzene), chlorinated hydocarbons (trichloroethylene), strong acids, glycols, ozone, weather, atmospheric aging, and polar solvents (ketone, acetone, acetic acid, ethylene-ester)

Additional Approvals: N/A

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Ky 40509
(859) 269-2351

REPORT DATA

Original Physical Properties	Test Method	Spec Limits	Test Results
Hardness, Shore A, pts.	ASTM D2240	70 ±5	75
Tensile Strength, PSI	ASTM D412	1450	2263
Ultimate Elongation, %	ASTM D412	250	262
(Z1) Specific Gravity	ASTM D297	as received	1.25
(B14) Compression Set (Solid)			
22 hrs. @ 212°F			
Percent of Original Deflection, Max	ASTM D395 Method B	25	8
(B34) Compression Set (Plied)			
22 hrs. @ 212°F			
Percent of Original Deflection, Max	ASTM D395 Method B	25	18
Heat Age, (Basic Requirement)			
70 hrs. @ 212°F			
Hardness Change, pts.	ASTM D573	± 15	+3
Tensile Strength Change, %		± 30	+10
Ultimate Elongation Change, %		-50	-11
(EA14) Fluid Resistance			
Water, 70 hrs @ 212°F			
Hardness Change, pts.	ASTM D471	± 10	+1
Volume Change, %		± 15	+3
(EF11) Fluid Resistance			
Fuel A, 70 hrs @ 73°F			
Hardness Change, pts.	ASTM D471	± 10	-4
Tensile Strength Change, %		-25	-11
Ultimate Elongation Change, %		-25	-13
Volume Change, %		-5 to +10	+3
(E014) Fluid Resistance			
IRM 901, 70 hrs @ 212°F			
Hardness Change, pts.	ASTM D471	-5 to +10	+2
Tensile Strength Change, %		-25	+16
Ultimate Elongation Change, %		-45	-3
Volume Change, %		-10 to +5	-5

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(E034) Fluid Resistance	**Test**	**Spec**	**Test**
IRM 903, 70 hrs @ 212°F	**Method**	**Limits**	**Results**
Hardness Change, pts.	ASTM D471	-10 to +5	-9
Tensile Strength Change, %		-45	+6
Ultimate Elongation Change, %		-45	-6
Volume Change, %		0 to +25	+14
(Z2) Low Temperature Resistance			
TR-10, temperature °F	ASTM D1329	report	-35

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