



COMPOUND DATA SHEET

MATERIAL REPORT

LTR Report Number: 43883
Date: 10/3/2006

Title: Evaluation of Parker Compound

Elastomer Type: Acrylonitrile-Butadiene (NBR)

Purpose: To obtain typical test data.

Color: Black

Recommended Temperature Range: -30°F to 275°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, salt & alkali solutions, and dilute acids

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

Additional Approvals: N/A

REPORT DATA

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Test Results</u>
Hardness, Shore A, pts.	ASTM D2240	90 ±5	89
Tensile Strength, PSI	ASTM D412	2500	2758
Ultimate Elongation, %	ASTM D412	80	103
Modulus @ 100% Elongation, psi min.	ASTM D412	Report	2565
Specific Gravity	ASTM D297	Report	1.29
Compression Set			
<u>22 hrs. @ 257°F</u>			
Percent of Original Deflection, Max	ASTM D395 Method B	Report	18
Compression Set			
<u>22 hrs. @ 350°F</u>			
Percent of Original Deflection, Max	ASTM D395 Method B	Report	37
<u>IRM 903, 70 hrs @ 257°F</u>			
Hardness Change, pts.	ASTM D471	Report	-2
Tensile Strength Change, %		Report	-56
Ultimate Elongation Change, %		Report	-31
Volume Change, %		Report	+10

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