



COMPOUND DATA SHEET

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MATERIAL REPORT

LTR Number: 87436
Date: 10/30/2013

- Title:** Evaluation of Parker Compound FF106-75.
- Elastomer Type:** Perfluoroelastomer (FFKM)
- Purpose:** To obtain typical test data.
- Specification:** ASTM D2000 M1KK811 Z1 (Shore A Hardness, 75 +/- 5), Z2 (Compression Set, 40% Max), Z3 (Omit Heat Age ASTM D573), Z4 (Omit ASTM D471 IRM903)
- Color:** Black
- Recommended Temperature Range:** +5°F to 525°F
- Recommended For:** Aliphatic and Aromatic Hydrocarbons, Chlorinated Hydrocarbons, Polar Solvents (Ketones, Esters, Ethers), Inorganic and Organic Acids, High Vacuum with minimal weight loss.
- Not Recommended For:** Fluorinated Refrierants (R11, 12, 13, 113, etc), Perfluorinated Lubricants (PFPE)
- Additional Approvals:** None

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	75 +/- 5	76
Tensile Strength, PSI	ASTM D1414	1595	2235
Ultimate Elongation, %	ASTM D1414	135	160
Modulus at 100% Elongation, psi	ASTM D1414	Report	906
Specific Gravity	ASTM D297	Report	1.99
<u>Compression Set, 70 hrs. @ 392°F</u>			
Percent of Original Deflection, Max	ASTM D395 Method B	40	31
<u>Compression Set, 70 hrs @ 446°F</u>			
Percent of Original Deflection, Max	ASTM D395 Method B	Report	34
<u>Fluid Immersion</u>			
<u>Ethylene Diamine, 70 hrs @ 194°F</u>			
Hardness Change, pts.	ASTM D471	Report	-1
Tensile Strength Change, psi		Report	-54
Ultimate Elongation Change, %		Report	-14
Modulus at 100% Change, psi		Report	-25
Volume Change, %		Report	+21

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