



COMPOUND DATA SHEET

Parker O-Ring Division, North America

MATERIAL REPORT

Report Number: 106601 Date:
12/30/13

- Title:** Evaluation of Parker Compound VG292-75
- Elastomer Type:** Fluorocarbon (FKM)
- Purpose:** To obtain typical test data.
- Specification:** ASTM D2000 M2HK710 A1-10 B38 Z1 (Shore A Hardness 75 +/-5),
Z2 (Tensile Strength 9 MPa), Z3 (Fluid Immersion 5W30)
- Color:** Black
- Recommended Temperature Range:** -40°F to 400°F
- Recommended For:** Engine coolant, biodiesel, mineral oil and grease, IRM 901 oil, IRM 902 oil, IRM 903 oil, nonflammable hydraulic fluids, silicone oils and greases, aliphatic hydrocarbons (propane, butane, natural gas), aromatic hydrocarbons (benzene, toluene), chlorinated hydrocarbons (trichloroethylene and carbon tetrachloride), gasoline, high vacuum, ozone, weather, and aging resistance.
- Not Recommended For:** Glycol based brake fluids, ammonia gas, amines, alkalis, superheated steam, and low molecular weight organic acids (formic and acetic acids).
- Additional Approvals:** N/A

REPORT DATA

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Test Results</u>
(Z1) Hardness, Shore A, pts.	ASTM D2240	75 ±5	76
(Z2) Tensile Strength, PSI (Mpa)	ASTM D412	1305 (9)	1638 (11.3)
Ultimate Elongation, %	ASTM D412	175	276
Fluid Resistance (Basic Requirement)			
<u>IRM 903, 70 hrs @ 302°F (150°C)</u>			
Volume Change, %	ASTM D471	+10	+2
(A1-10) Heat Age			
<u>70 hrs. @ 482°F (250°C)</u>			
Hardness Change, pts.	ASTM D573	+10	-4
Tensile Strength Change, %		-25	+27
Ultimate Elongation Change, % max		-25	-23
(B38) Compression Set (Plied)			
<u>22 hrs. @ 347°F (175°C)</u>			
Percent of Original Deflection, Max	ASTM D395 Method B	50	9
(Z3) Fluid Immersion			
<u>Shell 5W30 (336 hrs @ 302°F (150°C))</u>			
Tensile Strength Change, %	ASTM D471	Report	+5
Ultimate Elongation Change, %		Report	+4
Volume Change, %		Report	+1

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