



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

Report Number: 103554

Test Date: 7/18/2014

Report Date: 7/25/2017



CONTACT US

Title: Evaluation of Parker Compound

Elastomer Type: Polyacrylate (ACM) AA150-70

Purpose: To obtain typical test data

Specification: ASTM D2000 M3DH706 B36 EO16 EO36 Z1 Z2
Z1 = Specific Gravity
Z2 = TR-10

Color: Black

Recommended Temperature Range: -5°F to 350°F

Recommended For: Mineral oil (engine, gear box, ATF oil), Ozone, weather, and aging resistance

Not Recommended For: Glycol based brake fluids (DOT 3 & DOT 4), aromatics and chlorinated hydrocarbons, hot water, steam, acids, alkalis and amines

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REPORT DATA

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Results</u>
Hardness, Shore A, pts.	ASTM D2240	70±5	70
Tensile Strength, PSI	ASTM D412	870	1148
Ultimate Elongation, %	ASTM D412	100	186
(Z1) Specific Gravity	ATM D297	Report	1.31
Dry Heat Resistance			
<u>70 hrs. @ 302°F (150°C)</u>			
Hardness Change, pts	ASTM D573	±15	+15
Tensile Change, %		±30	+29
Elongation Change, %		-50	-13
(B36) Compression Set			
<u>22 hrs. @ 302°F (150°C)</u>			
Percent of Original Deflection, max	ASTM D395 Method B	50	35
(EO16) Fluid Immersion, IRM 901			
<u>70 hrs. @ 302°F (150°C)</u>			
Hardness Change, pts.	ASTM D471	-5 to +10	+10
Tensile Change, %		-20	+28
Elongation Change, %		-30	-29
Volume Change, %		±5	-5
(EO36) Fluid Immersion, IRM 903			
<u>70 hrs. @ 302°F (150°C)</u>			
Hardness change, pts.	ASTM D471	-15	-10
Tensile Change, %		-30	+7
Elongation Change, %		-30	+11
Volume Change, %		+25	+10
<u>(Z2) Low Temperature Resistance</u>			
TR-10, °F (°C)	ASTM D2137	Report	-11 (-24)