



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

Test Date: 4/30/18
Test number: 338252

Title: Evaluation of Parker Compound EM163-80

Elastomer Type: Ethylene Propylene compound (EPDM)

Purpose: Testing to ASTM D2000 3DA815 A26 B36 EA14 Z1
(TR-10)

Color: Black

Recommended Temperature Range: -70°F to 250°F

Recommended For: Hot water and steam, Glycol based brake fluid, Many organic and inorganic acids, Cleaning agents, soda and potassium alkalis, Phosphate –ester based hydraulic fluids, Silicone oil and grease, Polar solvents, Ozone, Aging and weather resistance.

Not Recommended For: Mineral Oil Products

Additional Approvals: Meets NAS1613 Rev 6 in full.

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as a felony under federal law."*

REPORT DATA

<u>Original Physical Properties:</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Results</u>
Hardness, Shore A, pts	ASTM D2240	80±5	75
Tensile Strength, psi, Min	ASTM D412	1500	2163
Ultimate Elongation, % Min	ASTM D412	150	200
<u>(A26) Dry Heat Resistance</u>			
<u>70 hrs @ 302°F (150°C)</u>	ASTM D865		
Hardness Change, points, Max		+10	2.5
Tensile Strength Change, %, Max		-20	2
Elongation Change, %, Max		-20	1
<u>(B36) Compression Set:</u>			
<u>22 hrs @ 302°F (150°C) Plie</u>	ASTM D395		
Set, %, Max		25	5
<u>(EA14) Water Resistance:</u>			
<u>70 hrs @ 212°F (100°C)</u>	ASTM D471		
Volume Change, %		±5	1
<u>(Z1) Temperature Retraction Test</u>	ASTM D1329		
TR-10 °F		-60	-67