



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

Test Date: 12/1/2017

Test number: 325477

Title: Evaluation of Parker Compound EA454-50

Elastomer Type: Ethylene Propylene compound (EPDM)

Purpose: To obtain typical test data.

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

*"Purchaser use only. Reproduce only in full. Data pertains to items referenced only.
The recording of false, fictitious, or fraudulent statements or entries in the report may be punishable
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	50±5	52
Tensile Strength, psi, Min	ASTM D412	1450	1913
Ultimate Elongation, % Min	ASTM D412	300	452
 <u>(A25) Dry Heat Resistance</u>			
<u>70 hrs @ 257°F (125°C)</u>	ASTM D865		
Hardness Change, points, Max		+10	2
Tensile Strength Change, %, Max		-20	3
Elongation Change, %, Max		-40	12
 <u>(B44) Compression Set:</u>			
<u>22 hrs @ 212°F (100°C) Plied</u>	ASTM D395		
Set, %, Max		35	15
 <u>(F19) Low Temperature Resistance</u>			
Nonbrittle After 3 min @ -55°C	ASTM D2137	Pass	Pass