



# MATERIAL REPORT

REPORT NUMBER: KK1955  
DATE: 03/4/1988



CONTACT US

**TITLE:** Evaluation of Parker FDA material E1028-70.  
**PURPOSE:** Provide performance data in physical and chemical environments

## CONCLUSION:

Recommended temperature limits: -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



## Report Data

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<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>COMPOUND</u> <u>E1028-70</u> <u>2-214 O-RINGS</u>
Hardness, Shore A, pts.	72
Tensile Strength, psi	1221
Elongation, %	435
Modulus @ 100% Elongation, psi.	380
Specific Gravity	1.15
<u>HEAT AGE</u>	
<u>70 HRS. @ 257°F</u>	
Hardness Change, pts.	+6
Tensile Strength Change, %, max	+37.8
Elongation Change, %	-34.3
<u>COMPRESSION SET</u>	
<u>70 HRS. @ 257° F</u>	
% of Original Deflection, max	82.9
<u>FLUID AGE</u>	
<u>WATER, 70 HRS. @ 212°F</u>	
Hardness Change, pts.	-2
Volume Change, %	+6.5
<u>LOW TEMPERATURE FLEXIBILITY</u>	
<u>3 MIN ± 0.3 at-85°F ± 5.4°</u>	
Figure 8 Bend	Pass
<u>TR-10° F</u>	-42