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**Compound Data Sheet**  
Parker O-Ring Division United States

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# MATERIAL REPORT

REPORT NUMBER: KK1955  
DATE: 03/4/1988

**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

Parker O-Ring Division  
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Lexington, Kentucky 40509  
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<b><u>ORIGINAL PHYSICAL PROPERTIES</u></b>	<b>COMPOUND</b>
Hardness, Shore A, pts.	<b>E1028-70</b>
Tensile Strength, psi	<b>2-214 O-RINGS</b>
Elongation, %	72
Modulus @ 100% Elongation, psi.	1221
Specific Gravity	435
	380
	1.15
<b><u>HEAT AGE</u></b>	
<b><u>70 HRS. @ 257°F</u></b>	
Hardness Change, pts.	+6
Tensile Strength Change, %, max	+37.8
Elongation Change, %	-34.3
<b><u>COMPRESSION SET</u></b>	
<b><u>70 HRS. @ 257° F</u></b>	
% of Original Deflection, max	82.9
<b><u>FLUID AGE</u></b>	
<b><u>WATER, 70 HRS. @ 212°F</u></b>	
Hardness Change, pts.	-2
Volume Change, %	+6.5
<b><u>LOW TEMPERATURE FLEXIBILITY</u></b>	
<b><u>3 MIN ± 0.3 at-85°F ± 5.4°</u></b>	
Figure 8 Bend	Pass
<b><u>TR-10° F</u></b>	-42