



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



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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