



MATERIAL REPORT

REPORT NUMBER: KK1644

DATE: 2/20/84

TITLE: Evaluation of Parker Compound V1041-85 (Aflas) to obtain basic characteristics.

PURPOSE: To establish general data review.

CONCLUSION: Parker Compound V1041-85 shows good properties, especially compression set for this type of polymer.

Recommended Temperature Range: 25 to 450F

Recommended for: bases, sour oil & gas, steam, phosphate esters, amines, petroleum oils, acids, ozone, alcohols

Not Recommended for: aromatic fuels, ketones, carbon tetrachloride, ethers, non-polar solvents, acetic acid, organic acetates

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REPORT DATA

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<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>PLATENS</u>	<u>2-214 O-RINGS</u>
Hardness, Shore A, pts	86	
Tensile Strength, psi.	2864	
Elongation, %	150	
Modulus @ 50% Elongation	963	
Modulus @ 100% Elongation	2074	
Specific Gravity	1.54	
<u>COMPRESSION SET,</u> <u>22 HRS @ 350° F</u>		
% of Original Deflection		24.3
<u>COMPRESSION SET,</u> <u>70 HRS @ 350° F</u>		
% of Original Deflection		34.3
<u>COMPRESSION SET,</u> <u>168 HRS @ 400° F</u>		
% of Original Deflection		50.0
<u>FLUID IMMERSION, ASTM #3 OIL</u> <u>70 HRS. @ 275° F</u>		
Hardness Change, pts., max	-9	
Tensile Change, %, max	-14.7	
Elongation Change, %, max	+13.3	
Volume Change, %, max	+13.7	