



MATERIAL REPORT

REPORT NUMBER: KK2219 A

DATE: 5/29/98

TITLE: General evaluation of V3819-75.

PURPOSE: To obtain general test data.

CONCLUSION: V3819-75 is an excellent highly fluorinated elastomer offering good resiliency.

REVISION A: Added acetone, benzene, compression set, heat age, low temperature testing.

Recommended Temperature Range: -15 to 400F

Recommended for: bases, phosphate esters, amines, petroleum oils, acids, ozone, alcohols, polar solvents

Not Recommended for: acetic acid, organic acetates, fluorinated oils & refrigerants

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REPORT DATA

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<u>Base Polymer</u>	<u>V3819-75</u>
	Hifluor
<u>Original Physical Properties</u>	
Hardness (Shore A) pts	78
Tensile Strength, psi	2030
Elongation, %	145
Modulus @ 100%, psi	1464
Specific Gravity	2.01
<u>Low Temperature Properties</u>	
TR-10, °F	+6
<u>Compression Set</u>	
70 Hours @ 392 °F	22.4
70 Hours @ 445 °F	33.1
<u>Heat Resistance, Hardness Change (pts)</u>	
24 Hours @ 536 °F	0
70 Hours @ 563 °F	+4
168 Hours @ 536 °F	+5
<u>Immersion in Acetone, 24 Hrs @ 73 °F</u>	
Hardness Change, pst	-5
Volume Change, %	+11.4
<u>Immersion in Benzene, 168 Hrs @ 100 °F</u>	
Hardness Change, pts	-3
Volume Change, %	+5.8