MATERIAL REPORT

REPORT NUMBER: KK2204
DATE: 05/31/1994

TITLE: L1218-80 to MIL-R-25988B

PURPOSE: To Determine if compound meets MIL-R-25988B.

CONCLUSION: Parker Compound L1218-80 meets all phases of the specification.

Recommended temperature limits: -90 °F to 350 °F

Recommended For
Aromatic mineral oils (IRM 903 oil)
Petroleum oils
Low molecular weight automatic hydrocarbons (benzene, toluene)
Jet Fuels
Chlorinated Solvents
Dry heat and low temp

Not Recommended For

Phosphate-esters
Acids
Ketones
Amines (ammonia)
Auto and aircraft brake fluids

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Compound Data Sheet
Parker O-Ring Division United States

REPORT DATA
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	MIL-R-25988B , Ty I, CL I, Gr 80 Requirements	L1218-80 .070	L1120-70 2-214 O-Rings
Basic Physical Properties			
Hardness	80±5	79	79
Tensile Strength, psi.	750	1149	1055
Elongation, %	70	200	177
Temperature Retraction, °F, max	-70		-80
Specific Gravity	As Determined		1.57
Compression Set After Air Aging, 70 H @ 75°F ± 5°F			
Compression Set, %, max.			
Under 0.110 “	25	6	
Over 0.110”	20		6
After Air Aging, 70 H @ 392 °F ± 5°F			
Hardness Change, pts	+10, -5		0
Tensile Change, %	20		-7
Elongation Change, %	20		1
Weight Loss, % max	2		-2

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Compression Set, % max After Air Aging, 22 H @ 347°F			
Under 0.110 “	50	15	
Over 0.110”	45		10
After Air Aging in AMS 3021, 70 H @ 302°F			
Hardness Change, pts	±15		-7
Tensile Change, %	30		-6
Elongation Change, %	15		-7
Volume Change, %	+1 to +15		+7
Compression Set, %, max			
Under 0.110 “	65	6	
Over 0.110”	60		3
Fluid Immersion, 22 H @ 75 °F in TT-S-735, Type III			
Hardness Change, pts, max	-20		-7
Tensile, Decrease, %, max	30		-12
Elongation Decrease, % max	30		-3
Volume, Change, %	+1 to +25		+16

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