



MATERIAL REPORT

REPORT NUMBER: KT2126
DATE: 03/30/93

- TITLE:** Evaluation of Parker Compound L1186-80
- PURPOSE:** To provide a general profile of this compound.
- CONCLUSION:** Parker Compound L1186-80 exhibits excellent tear resistance in addition to its superior compression set resistance. This compound should be considered for applications requiring resistance to wear and abrasion; applications requiring fluid and compression set resistance.

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



REPORT DATA

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L1186-80 2-214
O-Rings
RESULTS

ORIGINAL VALUES

Tensile Strength, (psi) MPa	(891) 6.1
Ultimate Elongation, %	165
Modulus @ 100% Elongation, (psi) MPa	(645) 4.4
Hardness, Durometer, Shore A	78
Specific Gravity	1.53
Temperature Retraction	
TR-10	-81°F
Tear Resistance, (1bf/in) KN/m	(155) 27.1

HEAT AGE, 70 HRS @ 392°F

Tensile Strength Change, %	- 1.8
Elongation Change, %	- 9.7
Hardness Change, pts	0
Bend Test	No Cracking or Cracking
Weight Loss, %	- .3

ASTM FUEL B, 70 HRS @ 75°F

Tensile Strength Change, %	- 20.1
Elongation Change, %	- 13.9
Hardness Change, pts	- 8
Bend Test	No Cracking or Cracking
Volume Change, %	+ 19.3

COMPRESSION SET, METHOD B DEFLECTION

22 HRS @ 302°F, %	5.9
22 HRS @ 347°F, %	7.4