MATERIAL REPORT

REPORT NUMBER:
DATE: 06/17/98

TITLE: Evaluation of Parker Compound V1163-75 to ASTM D2000 M2HK 710 A1-10 B38 EF31 Z1 Z2 Z3

PURPOSE: To determine if V1163-75 meets the requirements.

CONCLUSION: Compound V1163-75 meets the ASTM D2000 callout.

Recommended temperature limits: -35^0F to 400^0F

Recommended For
Flex fuels, low temperature
Petroleum, mineral, and vegetable oils
Silicone fluids
Aromatic hydrocarbons (benzene, toluene)
Chlorinated hydrocarbons
High vacuum
Ozone, weather, and aging resistance

Not Recommended For
Hot water and steam
Auto and aircraft brake fluids
Amines
Ketones
Low molecular weight esters and ethers

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Compound Data Sheet
Parker O-Ring Division United States

REPORT DATA

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	ASTM D2000 **M2HK 710 A1-10 B38** **EF31 Z1 Z2 Z3** Pass / Fail Limits	**V1163-75** Slab Results
Basic Physical Properties		
Hardness	75 +/- 5 (Z1)	76
Tensile Strength, MPa min	10	11.7
Elongation, % min	175	228
100% Modulus, MPa	Not required	5.4
Heat Aging, 70 HRS @ 250^{0}C		
Hardness Change, pts max	+10	0
Tensile Change, % max	-25	+5
Elongation Change, % max	-25	-7
Compression Set ASTM D395, Method B, 22 HRS @ 200^{0}C, plies		
% of Original Deflection, max	50	20.0
Fluid Resistance, ASTM Ref. Fuel C, 70 HRS @ 23^{0}C		
Hardness Change, pts	+/-5	-4
Tensile Change, % max	-25	-19
Elongation Change, % max	-20	-4
Volume Change, %	0 to +10	+3.1
(Z2) Fluid Immersion, 50/50 by volume Ref. Fuel C/Methanol, 70 HRS @ 23^{0}C		
Volume Change, % max	+20	+16.0
(Z3) Low Temperature Retraction, ASTM D1329		
TR-10 (degrees C), max	-20	-24

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