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**Compound Data Sheet**  
Parker O-Ring Division United States

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# MATERIAL REPORT

REPORT NUMBER:

DATE: 01/02/97

**TITLE:** Evaluation of Parker Compound V1475-75 to ASTM D2000  
M2HK710 A1-10 B37 B38 EF 31 E078 Z1 Z2

**PURPOSE:** To determine if V1475-75 meets the requirements.

**CONCLUSION:** Compound V1475-75 meets the ASTM D2000 callout.

Recommended temperature limits: -15<sup>0</sup>F to 400<sup>0</sup>F

Recommended For

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

Parker O-Ring Division  
2360 Palumbo Drive  
Lexington, Kentucky 40509  
(859) 269-2351



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REPORT DATA

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	ASTM D2000 <b>M2HK 710 A1-10 B37</b> <b>B38 EF31 E078 Z1 Z2</b> <u>Pass / Fail Limits</u>	<b>V1475-75</b> <u>Slab Results</u>
<u>Basic Physical Properties</u>		
Hardness	75 +/- 5 (Z1)	77
Tensile Strength, psi min	1450	1800
Elongation, % min	175	182
100% Modulus, MPa	Not required	1.88
<u>A1-10 Heat Aging, 70 HRS @ 250°C</u>		
Hardness Change, pts max	+10	+1
Tensile Change, % max	-25	+8
Elongation Change, % max	-25	-11
<u>B37 Compression Set, 22 HRS @ 175°C</u>		
% of Original Deflection, max	50	6
<u>B38 Compression Set, 22 HRS @ 200°C</u>		
% of Original Deflection, max	50	13
<u>EF31, ASTM Ref. Fuel C, 70 HRS @ 23°C</u>		
Hardness Change, pts	+/-5	-3
Tensile Change, % max	-25	-7
Elongation Change, % max	-20	-6
Volume Change, %	0 to +10	+4
<u>E078, Fluid Resistance, #101 Oil, 70 HRS @ 200°C</u>		
Hardness Change, pts	-15 to +5	-9
Tensile Change, % max	-40	-4
Elongation Change, % max	-20	-5
Volume Change, %	0 to +15	+11
<u>(Z2) Heat Resistance, 70 HRS @ 275°C</u>		
Hardness Change, pts max	+10	+5
Tensile Change, % max	-40	-8.6
Elongation Change, % max	-20	+2.2
<u>Basic Oil Immersion, ASTM #3 Oil, 70 HRS @ 150°C</u>		
volume change	+10 max	+3

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