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

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# MATERIAL REPORT

REPORT NUMBER:

DATE:

**TITLE:** Evaluation of Parker Compound V1412-90 to ASTM D2000  
M7HK914 A1-11 B38 EF31 E088

**PURPOSE:** To determine if V1412-90 meets the requirements.

**CONCLUSION:** Compound V1412-90 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

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Lexington, Kentucky 40509  
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**REPORT DATA**

 Report Number: 

	ASTM D2000 <b>M7HK 914 A1-11 B38</b> <b>EF31 E088</b> <u>Pass / Fail Limits</u>	<b>V1412-90</b> <u>Slab Results</u>
<u>Basic Physical Properties</u>		
Hardness	90 +/- 5	90
Tensile Strength, psi min	2031	2300
Elongation, % min	100	163
100% Modulus, Mpa	Not required	1517
Specific Gravity	Not required	2.22
<u>A1-11 Heat Aging, 70 HRS @ 275°C</u>		
Hardness Change, pts	-5 to +10	+2
Tensile Change, % max	-40	-39
Elongation Change, % max	-20	+1
<u>B38 Compression Set, 22 HRS @ 200°C</u>		
% of Original Deflection, max	20	11
<u>EF31, ASTM Ref. Fuel C, 70 HRS @ 23°C</u>		
Hardness Change, pts	+/-5	-4
Tensile Change, % max	-25	-14
Elongation Change, % max	-20	-8
Volume Change, %	0 to +10	+3
<u>E088, Fluid Resistance, Stauffer 7700, 70 HRS @ 200°C</u>		
Hardness Change, pts	-15 to +5	-12
Tensile Change, % max	-40	-19
Elongation Change, % max	-20	-11
Volume Change, % max	+25	+16
<u>Basic Oil Immersion, IRM 903 Oil, 70 HRS @ 150°C</u>		
volume change, max	+10	+2
<u>Heat Aging, 70 HRS @ 250°C</u>		
Hardness Change, pts	+/-15	0
Tensile Change, %	+/-30	-19
Elongation Change, % max	-50	+4