



Compound Data Sheet
O-Ring Division United States

MATERIAL REPORT

LTR: 107664
Date: 2/10/2015

- Title:** Parker Compound VX165-90
- Temperature:** -65°F to 400°F (-54°C to 204°C)
- Purpose:** To provide documentation to the above specification as well as provide a general profile of this material.
- Specification:** ASTM D2000 M5HK910 B38 EF31 F17 Z1
Z1 = Ultimate elongation of 80%
- Recommended For:** Low temperature, methanol, mineral oil, silicone oil, grease, IRM 901, IRM 902, IRM 903, non-flammable hydraulic fluids, aliphatic hydrocarbons (propane, butane, natural gas) aromatic hydrocarbons (benzene, toluene), chlorinated hydrocarbons (trichloroethylene and carbon tetrachloride), gasoline, high vacuum, ozone, weather, and aging resistance
- Not Recommended For:** Glycol based brake fluids, ammonia, gas, amines, alkalis, superheated steam, and low molecular weight organic acids (formic and acetic acids)
- Additional Approvals:** ISO23936-2 2% H2S

REPORT DATA

ASTM D2000 M5HK910 B38 EF31 F17 Z1

<u>Original Physical Properties</u>	Test Method	Spec Limits	VX165 Results
Hardness, Shore A, pts.	ASTM D2240	90 ± 5	90
Tensile Strength, Mpa, min	ASTM D412	10 min	14
Ultimate Elongation, % Z1	ASTM D412	80	92
<u>Compression Set 22 hrs. @ 175°C Basic</u>	ASTM D395 Method B	35	12
Percent of original deflection, max			
<u>Compression Set 22 hrs. @ 200°C B38</u>	ASTM D395 Method B	50	15
Percent of original deflection, max			
<u>Dry Heat Resistance 70 hrs. @ 250°C Basic</u>	ASTM D573		
Hardness Change, pts.		± 15	+ 2
Tensile Change, %		± 30	- 17
Elongation Change, % max		- 50	- 20
<u>Fluid Immersion IRM 901, (70 hrs. @ 150°C) Basic</u>	ASTM D471		
Volume Change, % max		+ 10	+ 2
<u>Fluid Immersion Reference Fuel C, (70 hrs. @ 23°C) EF31</u>	ASTM D471		
Hardness Change, Shore A pts.		± 5	- 5
Tensile Strength Change, % max		- 25	- 23
Ultimate Elongation Change, % max		- 20	+ 12
Volume Change, %		0 to + 10	+ 9
<u>Low Temperature Brittleness F17</u>			
Nonbrittle after 3 min. @ -40°C	ASTM D2137	Report	Pass

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