



Porter Seal Denver Compound Technical Report

Viton 75 - Black

Viton is Dupont's trade name for fluoroelastomers. These compounds have the best resistance to a combination of chemicals, weather and compression set over a temperature range of -20° F to +400° F.

ASTM

Designation	Original properties	D2000 Spec.	Result
	Durometer, Shore A	75 ± 5	76
	Tensile, psi (MPa), min.	1450 (10)	1773 (12)
	Elongation, % min	150	220
	Specific Gravity	-	1.85
A1-10	<u>Heat age, 70 hrs @ 250° C</u>		
	Durometer change, points	+ 10	+ 2
	Tensile strength change, % max	- 25	+ 5
	Elongation change, % max	- 25	- 8
B38	<u>Compression set, 22 hrs @ 200° C</u>		
	Original deflection, % Max.	15	10.8
C12	<u>Resistance to ozone</u>		
	ASTM D1171, Method B	No cracks	Pass
C20	<u>Resistance to outdoor aging</u>		
	ASTM D1171	No cracks	Pass
EF31	<u>Fuel Age, 70 hrs @ 23° C in Reference Fuel C</u>		
	Durometer change, points	± 5	- 1
	Tensile change, % max	- 25	- 14
	Elongation change, % max	- 20	- 12
	Volume change, %	+ 10	+ 3
EO88	<u>Fluid resistance, 70 hrs @ 200° C in Stauffer 7700/SAE Fluid # 2</u>		
	Durometer change, points	-15/+5	- 6
	Tensile change, % max	- 40	- 21
	Elongation change, % max	- 20	- 14
	Volume change, %	+ 25	+ 8
F15	<u>Low Temperature Brittleness, 3 min @ -25° c</u>		
	ASTM D2137, Method A, 9.3.2	Non Brittle	Pass

Specifications met:

ASTM D2000-01 Grade M6HK810 A1-10, B38, C12, C20, EF31, EO88, F15

Viton is Recommended for

Petroleum Oils
Di-ester based lubricants
Acids
Hologenated hydrocarbons
Silicone greases

Viton is not Recommended for

Skydrol
Ketones
Amines (UDMH)
Hydrofluoric or chlorosulfonic acids
Low molecular weight esters and ethers