

The O-Ring Store LLC



We make getting o-rings easy!

FDA BROWN VITON 75 DUROMETER DATA SHEET FOR COMPOUND FDABV75

Compound Features:

- FDA compliant material *
- Brown in color.
- Excellent resistance to petroleum products.
- Excellent fuel resistance.
- Excellent resistance to acids, chemicals, and solvents.
- Excellent resistance to weathering, ozone, and UV/sunlight.
- Good abrasion and wear resistance.
- Excellent compression set resistance.
- Excellent permeation resistance.

Compound Limitations:

- Poor resistance to hot water and steam.
- Poor resistance to automotive and aircraft brake fluids.
- Poor resistance to ketones (MEK).
- Poor resistance to amines.
- Poor resistance to low molecular esters and ethers.

Temperature Range:

-20°F to +400°F (-40°C to +121°C)

ASTM Callout:

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

*Z1=Meets FDA 177.2600

Z2= Meets 3A Sanitary Class I Requirements

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	FDABV75 Compound Property
Durometer	Z1	-	Shore A	75± 5	76
Tensile Strength			PSI (MPa)	1450 (10)	1773 (12)
Elongation Resistance			%	150 Min.	160
Specific Gravity			-	-	2.02

HEAT AGE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	FDABV75 Compound Property
Durometer Change	A1-10	70 Hours @ 250°C	Shore A	+10	+2
Tensile Strength Change			%	-25	+4
Elongation Resistance Change			%	-25	-8

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	FDABV75 Compound Property
Original Deflection	B38	22 Hours @ 200°C	%	15 Max	13.9

RESISTANCE TO OZONE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	FDABV75 Compound Property
Test Results	C12	ASTM D1171 Method B	Pass/Fail	No Cracks	Pass

RESISTANCE TO OZONE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	FDABV75 Compound Property
Test Results	C20	ASTM D1171	Pass/Fail	No Cracks	Pass

FUEL AGE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	FDABV75 Compound Property
Durometer Change	EF31	Ref. Fuel E 70 Hours @ 23°C	Shore A	±5	-1
Tensile Strength Change			%	-25	-14
Elongation Resistance Change			%	-20	-12
Change in Volume			%	0 to +10	+3

Information within is believed to be accurate and reliable. However, The O-Ring Store, LLC makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate the material prior to use.

1847 Wilma DR - Clarkston, WA 99403 | Phone (208) 413-6377 Fax (208) 413-6719

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FLUID RESISTANCE – SAE FLUID NO. 2					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	FDABV75 Compound Property
Durometer Change	EO88	SAE Fluid No. 2 70 Hours @ 200°C	Shore A	-15 to +5	-6
Tensile Strength Change			%	-40	-21
Elongation Resistance Change			%	-20	-14
Change in Volume			%	+25	+8

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