

The O-Ring Store LLC



We make getting o-rings easy!

BROWN VITON 75 DUROMETER DATA SHEET FOR COMPOUND BV75

Compound Features:

- 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.
- Works well with silicone grease or oil lubricants.
- Works well with diester lubricants.
- Good abrasion and wear resistance.
- Excellent compression set 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=75+/-5 Durometer Z2=Low Temperature TR10=-16.8°C

Recommended Shelf Life:

Unlimited (Certificate of conformance available upon request.)

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	BV75 Compound Property
Durometer	Z1	-	Shore A	75± 5	76
Tensile Strength			PSI (MPa)	1450 (10)	1690 (11)
Elongation Resistance			%	150 Min.	185
Specific Gravity			-	-	2.02

HEAT AGE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	BV75 Compound Property
Durometer Change	A1-10	70 Hours @ 250°C	Shore A	+10	+2
Tensile Strength Change			%	-25	+5
Elongation Resistance Change			%	-25	-8

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	BV75 Compound Property
Original Deflection	B38	22 Hours @ 200°C	%	15 Max	14.2

RESISTANCE TO OZONE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	BV75 Compound Property
Original Deflection	C12	ASTM D1171 Method B	Pass/Fail	No Cracks	Pass

RESISTANCE TO OZONE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	BV75 Compound Property
Original Deflection	C20	ASTM D1171	Pass/Fail	No Cracks	Pass

FUEL AGE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	BV75 Compound Property
Durometer Change	EF31	Ref. Fuel E 70 Hours @ 23°C	Shore A	±5	-6
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.

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FLUID RESISTANCE – SAE FLUID NO. 2					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	BV75 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

LOW TEMPERATURE RETRACTION					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	BV75 Compound Property
Durometer Change	Z2	TR10	°C	-	-15.8

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