

The O-Ring Store LLC



We make getting o-rings easy!

FDA GREEN VITON 75 DUROMETER DATA SHEET FOR COMPOUND GV75

Compound Features:

- FDA compliant material *
- Green in color.
- Excellent resistance to petroleum products.
- Excellent standard 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 M2HK810 A1-10 B38 ED31 EO78 Z Z1

Z = Shore A Durometer of 75 ± 5

*Z1 = FDA Compliant Per 21 CFR177.2600

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	GV75 Compound Property
Durometer	Z	D2240-10	Shore A	75± 5	75
Tensile Strength	-	D412-13	MPa	10 Min	10.1
Elongation Resistance	-	D412-13	%	150 Min	167
Modulus at 100%	-	D412-13	PSI	Report	580
Specific Gravity	-	D297-13	-	2.12 ± 0.05	2.13

HEAT RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	GV75 Compound Property
Durometer Change	A1-10	D573-10 70 Hours @ 250°C	Shore A	+10 Max	+5
Tensile Strength Change			%	-25 Max	+4
Elongation Resistance Change			%	-25 Max	-22

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	GV75 Compound Property
Original Deflection	B38	D395-08 22 Hours @ 200°C	%	50 Max	14

FUEL C RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	GV75 Compound Property
Durometer Change	EF31	D471-12A 70 Hours @ 23°C	Shore A	±5	-2
Tensile Strength Change			%	-25 Max	-19
Elongation Resistance Change			%	-20 Max	+12
Volume Change			%	0 to +10	+3

FLUID NO. 101 RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	GV75 Compound Property
Durometer Change	EO78	D471-12A 70 Hours @ 23°C	Shore A	-15 to +5	-5
Tensile Strength Change			%	-40 Max	-19
Elongation Resistance Change			%	-20 Max	-10
Volume Change			%	0 to +15	+14

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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FDA COMPLIANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	GV75 Compound Property
21 CFR177.2600	Z1	-	Yes/No	-	Yes

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