



Material Datasheet

Compound V75-B101

Genuine Viton™, Black, UL 157

Material Summary

Material Type:	Viton™	
Durometer:	75	
Color:	Black	
Special Properties:	UL 157	
Recommended Temperature Range (Static):	-25°C (-13°F) to 250°C (482°F)	
Cure System:	Bisphenol	
Meets Specification:	ASTM D2000 M4HK710 A1-11 B38 EF31 EO78 Z1	
Original Properties (Z1)	Requirements	Typical Results
Hardness, Shore A, pts, ASTM D2240-15	75 ± 5	75
Tensile Strength, psi, min, ASTM D412-16	10 (1450) (min)	16.50 (2392)
Elongation, min, %, ASTM D412-16	175 (min)	204
Modulus @ 100%, psi, ASTM D412-16		6.99 (1013)
Density, Mg/m ³ , CNS 5341-96, Method A		1.84
HEAT AGE, A1-A11 (70 hrs. @ 275°C)	Requirements	Typical Results
Hardness Change, pts, Shore A, ASTM D573-04	+10 (max)	+1
Tensile Strength Change, %, ASTM D573-04	-40 (max)	-22
Elongation Change, %, ASTM D573-04	-20 (max)	+14
Weight Change, %		-5.9
COMPRESSION SET, B38 (22 hrs. @ 200°C)	Requirements	Typical Results
ASTM D395-18, Method B	50 % (plied) (max)	12.1
FUEL C RESISTANCE, EF31 (70 hrs. @ 23°C)	Requirements	Typical Results
Hardness Change, pts, Shore A, ASTM D471-16a	±5	-3
Tensile Strength Change, %, ASTM D471-16a	-25 (max)	-8
Elongation Change, %, ASTM D471-16a	-20 (max)	+2
Volume Change, %, ASTM D471-16a	0 to +10	+3.5
NO. 101 OIL, EO78 (70 hrs. @ 200°C)	Requirements	Typical Results
Hardness Change, pts.	-15 to +5	-8
Tensile Strength Change, %	-40 (max)	-2
Elongation Change, %	-20 (max)	+5
Weight Change, %	0 to +15	+10.2

Report Date: 5/8/2025

Information within this report is believed to be accurate and reliable. However, Global O-Ring and Seal 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 prior to use.