

Material Test Report

Compound V75-B102

Genuine Viton™, Black, General Purpose

Material Summary		
Material Type:	Viton™	
Durometer:	75	
Color:	Black	
Special Properties:	-	
Recommended Temperature Range (Static):	-25°C (-13°F) to 250°C (482°F)	
Cure System:	Bisphenol	
Meets Specification:	ASTM D2000 M2HK710 A1-10 B37 B38 EF31 EO78 Z1	
Original Properties	Requirements	Typical Results
Hardness, Shore A, pts, ASTM D2240-15	75±5	77
Tensile Strength, psi, min, ASTM D412-16	1450 (min)	2077
Elongation, min, %, ASTM D412-16	175 (min)	175
Modulus @ 100%, psi, ASTM D412-16		1125
Density, Mg/m ³ , CNS 5341-96, Method A		1.84
HEAT AGE, A1-A10 (70 hrs. @ 250°C)	Requirements	Typical Results
Hardness Change, pts, Shore A, ASTM D573-04	+10(max)	+1
Tensile Strength Change, %, ASTM D573-04	-25(max)	-2
Elongation Change, %, ASTM D573-04	-25(max)	-8
Weight Change, %		-1.7
COMPRESSION SET, B37 (22 hrs. @ 175°C)	Requirements	Typical Results
ASTM D395-18, Method B	50%(plied)(max)	7.3
COMPRESSION SET, B38 (22 hrs. @ 200°C)	Requirements	Typical Results
ASTM D395-18, Method B	50%(plied)(max)	8.1
FUEL C RESISTANCE, EF31 (70 hrs. @ 23°C)	Requirements	Typical Results
Hardness Change, pts, Shore A, ASTM D471-16a	±5	-2
Tensile Strength Change, %, ASTM D471-16a	-25(max)	-19
Elongation Change, %, ASTM D471-16a	-20(max)	-5
Volume Change, %, ASTM D471-16a	0~+10	+3.1
NO. 101 OIL, EO78 (70 hrs. @ 200°C)	Requirements	Typical Results
Hardness Change, pts, Shore A, ASTM D471-16a	-15~+5	-6
Tensile Strength Change, %, ASTM D471-16a	-40(max)	-16
Elongation Change, %, ASTM D471-16a	-20(max)	+1
Volume Change, %, ASTM D471-16a	0~+15	+9.5

Report Date: 2/25/2022

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