

# COMPOUND AND SPECIFICATION DATA FOR MASTER SEAL® BLACK VITON/FKM

**TYPICAL PHYSICAL PROPERTIES FOR MS VITON  
ASTM D2000 3HK 708 A1-10, B37, C12, EF-31, F17, Z1, Z2, Z3, Z4.**

PROPERTY		VALUE	TEST METHOD
BASE MATERIAL		VITON/FKM	N/A
COLOR		BLACK	N/A
TEST LEVEL		3	GRADE
TEST TEMPERATURE		G 250° C	TYPE
VOLUME SWELL		MAX 0 TO +10 %	CLASS E
DUROMETER		70 +/- 5 (SHORE)	ASTM D 2240
TENSILE STRENGTH		8 MPA (1160 psi) MINIMUM	ASTM D 412
ULTIMATE ELONGATION		175 % MINIMUM	ASTM 412
A1-10	HEAT AGING	70 hrs. @ 100° C Change in hardness + 10 Pts Change tensile max. -25% Change elongation -25%	ASTM D 573
B37	COMPRESSION SET	22 hrs. @ 175 ° C MAX 30 %	ASTM D 395 B
C12	OZONE RESISTANCE	70 hrs. @ 50 pphm 38° C 100% quality retention	ASTM D 1171
EF-31	FLUID RESISTANCE	90 FUEL C, 10% ETHANOL 70 hrs AT 23 C 80% FUEL C+9%METHANOL+5% GTBA CHANGE IN HARDNESS +/- 5 POINTS CHANGE IN TENSILE -25 CHANGE IN ULTIMATE ELONGATION -20	ASTM D 471
F17	LOW TEMPERATURE BRITTLINESS	3 MINUTES @ -40° C PASS	ASTM D 2137A, 9.3.2
Z1	TARGET HARDNESS	70 SHORE A	ASTM 2240
Z2	SPECIFIC RUBBER	VITON/FKM	PASS
Z3	FLUID C	ISOOCTANE 50% TOLUENE 50%	PASS
Z4	GTBA	GASOLINE GRADE TERTIARY BUTHYL ALCOHOL	PASS

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Specifications subject to change without notice.