

COMPOUND AND SPECIFICATION DATA FOR MASTER SEAL® BLACK NITRILE HI TEAR FLUID RESISTANT 80 SHORE

TYPICAL PHYSICAL PROPERTIES OF NITRILE BLACK HI TEAR FR
ASTM D2000 M2BG 815, B14, EA14, EF11, EF21, EO34, F19, Z1, Z2, Z3

PROPERTY		VALUE	TEST METHOD
BASE MATERIAL		ACRYLONITRILE BUTADIENE RUBBER	N/A
COLOR		BLACK	N/A
TEST LEVEL		2	GRADE
TEST TEMPERATURE		B 100° C	TYPE
VOLUME SWELL		IRM 903 70 HS AT 100C +40	ASTM D 471
DUROMETER		80 +/- 5 (SHORE)	ASTM D 2240
TENSILE STRENGTH		15 MPA (2175 psi) MINIMUM	ASTM D 412
ULTIMATE ELONGATION		250 % MINIMUM	ASTM D 412
B14	COMPRESSION SET	MAX 25 %	ASTM D 395
EA14	WATER RESISTANCE	CHANGE IN HARDNESS +/- 10 POINTS CHANGE IN VOLUME +/- 15%	ASTM D 471
EO34	FLUID RESISTANCE IRM 903 OIL	70 hrs. @ 100° C CHANGE IN HARDNESS -10 TO +5 POINTS CHANGE IN TENSILE -45 % CHANGE ULTIMATE ELONGATION -45% CHANGE IN VOLUME 0 TO +25	ASTM D 471B
EF11	FUEL RESISTANCE 90% FUEL C + 10% ETHANOL	70 hrs. @ 23° C CHANGE IN HARDNESS +/-10 POINTS CHANGE IN TENSILE -25 % CHANGE ULTIMATE ELONGATION -25% CHANGE IN VOLUME -5 TO +10	ASTM D 471B
EF21	FUEL RESISTANCE 86% FUEL C + 9% ETHANOL +5% GTBA	70 hrs. @ 23° C CHANGE IN HARDNESS 0 TO -30 POINTS CHANGE IN TENSILE -60 % CHANGE ULTIMATE ELONGATION -60% CHANGE IN VOLUME 0 TO -40	ASTM D 471 B
F19	LOW TEMPERATURE BRITTLENESS	3 MINUTES @ -55° C PASS	ASTM D 2137A, 9.3.2
Z1	TARGET HARDNESS	80 SHORE A	ASTM D 2240
Z2	SPECIFIC RUBBER	NITRILE	
Z3	TEAR	DIE C	

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Specifications subject to change without notice.