



# COMPOUND AND SPECIFICATION DATA FOR MASTER SEAL® BLACK NITRILE HI TEAR FLUID RESISTANT 70 SHORE

**TYPICAL PHYSICAL PROPERTIES OF NITRILE BLACK HI TEAR FR  
ASTM D2000 M2BG714, E034, EF11, EF21, F19, Z1, Z2.**

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		70 +/- 5 (SHORE)	ASTM D 2240
TENSILE STRENGTH		14 MPA (2030 psi) MINIMUM	ASTM D 412
ULTIMATE ELONGATION		250 % MINIMUM	ASTM D 412
EO34	FLUID RESISTANCE IRM 903 OIL	70 hrs. @ 100° C CHANGE IN HARDNESS -20 POINTS CHANGE IN TENSILE -45 % CHANGE ULTIMATE ELONGATION -45% CHANGE IN VOLUME 0 TO +60	ASTM D 573
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 BRITTLINESS	3 MINUTES @ -55° C PASS	ASTM D 2137A, 9.3.2
Z1	TARGET HARDNESS	70 SHORE A	ASTM D 2240
Z2	SPECIFIC RUBBER	NITRILE	PASS

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Specifications subject to change without notice.