

Mykin Inc

RN00170

GENERAL PROPERTIES

Mykin's RN00170, Nitrile (BUNA-N) 70 durometer, is a general purpose copolymer of butadiene and acrylonitrile. This compound has a relatively high acrylo content, making it exceptionally resistant to petroleum base oils and hydrocarbon fuels over a temperature range of -40F to +250F. Nitrile has good mechanical properties when compared with other elastomers and high wear resistance. Unless they are specially compounded, nitrile is not resistant to weathering, sunlight and ozone.

ASTM Designation	ORIGINAL PROPERTIES	ASTM D2000 SPECIFICATION
	Durometer, Shore A	70+/-5
	Tensile, psi (MPa), Minimum	2031 (14)
	Elongation, % Minimum	250
	Specific Gravity	-
	HEAT AGE, 70 HRS @ 100 C	
	Durometer Change, Points	+/- 15
	Tensile Strength Change, % Maximum	+/- 30
	Elongation Change, % Maximum	-50
B14	COMPRESSION SET, 22 HRS @ 100 C	
	Original Deflection, % Maximum	25 (Button)
EA14	WATER RESISTANCE, 70 HRS @ 100C	
	Durometer Change, Points	+/-10
	Volume Change, %	+/-15
EF11	FUEL A RESISTANCE, 70 HRS @ 23C	
	Durometer Change, Points	+/-10
	Tensile Change, % Maximum	-25
	Elongation Change, % Maximum	-25
	Volume Change, %	-5/+10
EF21	FUEL B RESISTANCE, 70 HRS @ 23C	
	Durometer Change, Points	0/-30
	Tensile Change, % Maximum	-60
	Elongation Change, % Maximum	-60
	Volume Change, % Maximum	0/+40
EO14	ASTM #1 OIL, 70 HRS @ 100C	
	Durometer Change, Points	-5/+10
	Tensile Change, % Maximum	-25
	Elongation Change, % Maximum	-45
	Volume Change, %	-10/+5
EO34	ASTM #3 OIL, 70 HRS @ 100C	
	Durometer Change, Points	-10/+5
	Tensile Change, % Maximum	-45
	Elongation Change, % Maximum	-45
	Volume Change, % Maximum	0/+25

F17

LOW TEMPERATURE BRITTLENESS ASTM D2137, Method A, 9.3.2
3 Minutes @ -40 C Non-Brittle Pass

SPECIFICATIONS MET

ASTM D2000-99 Grade M2BG714 B14 EA14 EF11 EF21 EO14 EO34 F17