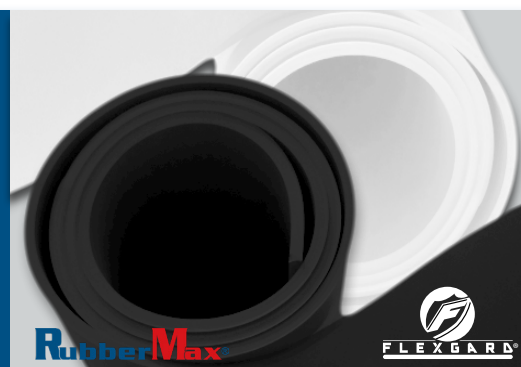


## FLEXGARD® & RUBBERMAX® NITRILE



**RM Biltrite® Flexgard® & Rubbermax® Nitrile Rubber**, also known as Buna-N, acrylonitrile butadiene rubber, and NBR, is a synthetic rubber copolymer of acrylonitrile (ACN) and butadiene. It has generally strong resistance to oil, fuel, petroleum based hydraulic fluids, aliphatic hydrocarbons, and hydrocarbon solvents, as well as alkalis, acids, and other chemicals. Like natural rubber, nitrile can be damaged by ozone, ketones, esters and aldehydes. It is more resistant than natural rubber to oils and acids, and has superior strength, but inferior flexibility. Nitrile rubber is less likely to cause an allergic reaction than natural rubber.

**Applications:** Automotive and aeronautical industry, fuel and oil handling gasket seals, hoses, grommets, self-sealing fuel tanks, molded goods, floor mats, disposable gloves.



### STYLE #205: FLEXGARD® COMMERCIAL NITRILE

Item ID	Durometer Hardness	Tensile Strength (min)		Elongation	Temperature Range		Color	Finish	Surface
	Shore A (± 5)	psi	MPa	min %	°F	°C			
IR205-40	40	900	6.2	300	-20 - +170	-29 - +77	Black	Smooth	No talc / film liner
IR205-50	50	900	6.2	300	-20 - +170	-29 - +77	Black	Smooth	No talc / film liner
IR205-60	60	900	6.2	200	-20 - +170	-29 - +77	Black	Smooth	No talc / film liner
IR205-70	70	900	6.2	150	-20 - +170	-29 - +77	Black	Smooth	No talc / film liner
IR205-80	80	900	6.2	100	-20 - +170	-29 - +77	Black	Smooth	No talc / film liner

### STYLE #201: RUBBERMAX® NITRILE GRADE 1 (ASTM D2000 1BF)

Item ID	Durometer Hardness	Tensile Strength (min)		Elongation	Compression Set at 212° F (100° C) for 22 Hours	Volume Swell 212° F (100° C) for 70 hrs in ASTM Oil 903	Temperature Range		Color	Finish	Surface
	Shore A (± 5)	psi	MPa	min %	max %	max %	°F	°C			
IR201-40	40	800	5.5	350	50	+60	-20 - +170	-29 - +77	Black	Smooth	No talc / film liner
IR201-50	50	1000	6.9	300	50	+60	-20 - +170	-29 - +77	Black	Smooth	No talc / film liner
IR201-60	60	1000	6.9	250	50	+60	-20 - +170	-29 - +77	Black	Smooth	No talc / film liner
IR201-70	70	1000	6.9	200	50	+60	-20 - +170	-29 - +77	Black	Smooth	No talc / film liner
IR201-80	80	1000	6.9	100	50	+60	-20 - +170	-29 - +77	Black	Smooth	No talc / film liner

### STYLE #221: RUBBERMAX® WHITE FDA NITRILE GRADE 1 (ASTM D2000 1BF)

Item ID	Durometer Hardness	Tensile Strength (min)		Elongation	Compression Set at 212° F (100° C) for 22 Hours	Volume Swell 212° F (100° C) for 70 hrs in ASTM Oil 903	Temperature Range		Color	Finish	Surface
	Shore A (± 5)	psi	MPa	min %	max %	max %	°F	°C			
IR221-50	60	1000	6.9	270	50	+60	-20 - +170	-29 - +77	White	Smooth	No talc / film liner
IR221-60	60	1000	6.9	250	50	+60	-20 - +170	-29 - +77	White	Smooth	No talc / film liner

### ROLL DIMENSIONS

Units	Widths				Thicknesses						
U.S.	36"	48"	1/16"	3/32"	1/8"	3/16"	1/4"	3/8"	1/2"	3/4"	1"
Metric	91.4 cm	121.9 cm	1.6 mm	2.4 mm	3.2 mm	4.8 mm	6.4 mm	9.5 mm	12.7 mm	19.1 mm	25.4 mm

Custom sizes available upon request

**RM Biltrite® · P: 800.877.8775 · F: 888.894.0204 · sales@rmbiltrite.com · www.rmbiltrite.com · 8395 Dunwoody PI · Sandy Springs, GA 30350**

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