

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 min %	Temperature Range		Color	Finish	Surface
	Shore A (± 5)	psi	MPa		°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 min %	Compression Set at 212° F (100° C) for 22 Hours max %	Volume Swell 212° F (100° C) for 70 hrs in ASTM Oil 903 max %	Temperature Range		Color	Finish	Surface
	Shore A (± 5)	psi	MPa				°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 min %	Compression Set at 212° F (100° C) for 22 Hours max %	Volume Swell 212° F (100° C) for 70 hrs in ASTM Oil 903 max %	Temperature Range		Color	Finish	Surface
	Shore A (± 5)	psi	MPa				°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						
	36"	48"	1/16"	3/32"	1/8"	3/16"	1/4"	3/8"	1/2"	3/4"	1"
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

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Typical Physical Properties: Per ASTM D300, Section 7.1, Buyer agrees that when standard test specimens are cut from finished parts in accordance with Practice D3183, a deviation to the extent of 10% on tensile strength and elongation values is permissible. All of our thermoplastic products are a proprietary blend of plastics and other components. In any application, the customer should evaluate the performance requirements and conditions that will affect the working life of the thermoplastic product. Where appropriate, field tests may need to be performed before the type of thermoplastic is selected. If the customers' quality assurance includes the testing of thermoplastic materials, the test criteria should specify the physical property of the ASTM specification that is most critical to its application. Polymer type alone may not be adequate for the selection of the thermoplastic that is best suited for a specific application. Buyer acknowledges the use of its own knowledge, expertise, skill, experience and judgment in the selection of product(s) and / or in the selection, provision, or designation of any specifications or set of specifications for a product(s) agreed upon by the Buyer and Seller. Buyer acknowledges that Seller shall not be liable for, and Buyer assumes all risk of, inaccurate or unsuitable specifications or information provided, selected or designed by the Buyer. RM BILTRITE™ LLC MAKES NO REPRESENTATIONS OR WARRANTIES WITH RESPECT TO THE SUITABILITY OF MATERIALS FOR A PARTICULAR PURPOSE. BUYERS AND USERS MUST DETERMINE THE SAFETY AND SUITABILITY OF RM BILTRITE™ LLC'S PRODUCTS FOR THEIR OWN PURPOSES, AND ASSUME ALL RISK, RESPONSIBILITY, AND LIABILITY FOR ALL INJURIES, LOSSES, OR DAMAGES ARISING FROM THE APPLICATION OF THE INFORMATION OR USE OF RM BILTRITE™ LLC'S PRODUCTS, WHETHER OR NOT CAUSED BY RM BILTRITE™ LLC'S NEGLIGENCE OR BASED ON STRICT PRODUCT LIABILITY. Terms and conditions are available upon request.