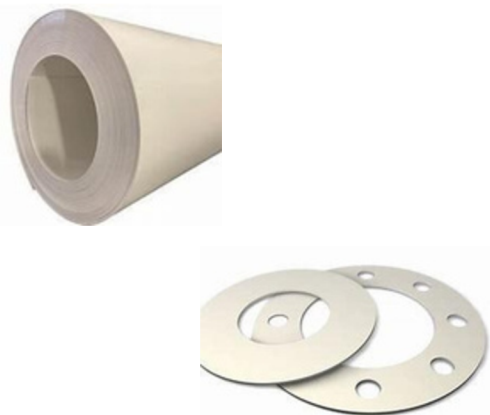


Sealmax Style 9010 – Nitrile Butadiene Rubber (Food Grade)

Applications:



- **Sealmax Style 9010** – Nitrile Butadiene Rubber (NBR) exhibits excellent mechanical strength, high tensile strength, and superior resistance to oils and petroleum-based fluids. It also maintains good flexibility at lower temperatures, making it suitable for demanding industrial environments.
- **Style 9010** complies with FDA 21 CFR 177.2600 and applicable food-contact regulations, making it suitable for hygienic and sanitary environments.
- Typical applications for **Style 9010** include filling and dispensing systems, pumps, pipe and flange gaskets, valves, quick connectors, tanks, separators, homogenizers, decanters and heat exchangers.
- **Style 9010's** material properties provide excellent resistance to petroleum-based fluids, hydraulic oils, gasoline, as well as alkalis and acids. NBR is therefore widely regarded as the preferred polymer for applications requiring strong resistance to oils and solvents.

TECHNICAL SPECIFICATIONS

SR.NO.	PROPERTIES	TEST METHOD	VALUE FPS UNITS	TEST METHOD REFERENCE	VALUES METRIC UNITS
1.	SPECIFIC GRAVITY	DIN 53508	1.40 ± 0.05.	ASTM D297	1.40 ± 0.05
2.	HARDNESS	DIN 53505	60 ± 5 Sh A	ASTM D2240	60 ± 5 Sh A
3.	TENSILE STRENGTH (min)	DIN 53504	711 PSI	ASTM D412	50 kg/cm ²
4.	ELONGATION AT BREAK (min)	DIN 53504	250%	ASTM D412	250%
5.	TEAR RESISTANCE (Angular) min	DIN 53515	140 Lbs / Inch	ASTM D624	25 Kg/cm
6.	COMPRESSION SET(70°C/24 hrs / 25%compression) (max)	DIN 53517	30%	ASTM D395METHOD B	35%
7.	CHANGE IN PROPERTIES AFTER HEAT AGEING FOR (72 hrs. AT 70 °C)	-	-	ASTM D 573	-
8.	--- HARDNESS (Pts)	-	+ 15 (Max)	-	+ 15 (Max)
9.	--- TENSILE STRENGTH (%)	-	± 30	-	± 30
10.	--- ELONGATION AT BREAK (%)	-	± 50	-	± 50
11.	VOLUME SWELL: AT 70°C FOR 72 HRS	ASTM D471		ASTM D 471	-
12.	IRM OIL NO.903	-	40% MAX	-	40% MAX
13.	NITRILE RUBBER CONTENT IN TOTAL POLYMER	-	100%	-	100%
14.	CHEMICAL RESISTANCE	-		-	-
15.	--- OZONE	-	FAIR	ASTM D 1149	FAIR
16.	--- DILUTE ACIDS AND BASES	-	GOOD	-	GOOD
17.	--- CONCENTRATED ACIDS AND BASES	-	GOOD	-	GOOD
18.	--- OILS	-	FAIR	-	FAIR
19.	--- SOLVENTS	-	FAIR	-	FAIR
20.	TEMPERATURE RANGE	-	-30° to +110° C	-	-30° to +110° C
21.	COLOUR	-	Off White	-	Off White

All technical data and recommendations are given based on our experience. However, we assume no liability whatsoever. All data and values must be verified by the user, as the effectiveness of a seal can only be accurately judged by evaluating all data parameters directly on site. The stated parameters of all packing styles are approximate and may be influenced if occurring together. We suggest you to contact us in case of any special applications.



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