

# NBR-95 N109

## Material Data Sheet NBR-95 N109 – black (peroxide cross linked)

### General

N109-B95 is a black Nitrile Butadiene Rubber commonly referred to as NBR, Nitrile or BUNA. Because of its good physical characteristics and chemical resistance to the most common hydraulic fluids NBR is excellently suitable for sealing material. NBR materials are one of the most used elastomers in sealing applications.

### Physical properties

Density:	DIN ISO 1183-1	g/cm <sup>3</sup>	1,31 ±0,03
Hardness at 23°C:	DIN ISO 7619-1	Shore A	95 ±3
Tensile strength:	DIN 53504	N/mm <sup>2</sup>	21,2*
Elongation at break:	DIN 53504	%	56,8*
Tear resistance:	DIN ISO 34-1 B/b	N/mm	16,2*
Rebound resilience:	DIN 53512	%	26,0*
Compression set, 24h, 70°C, 25%:	DIN ISO 815-1	%	13,5*
Compression set, 24h, 100°C, 25%:	DIN ISO 815-1	%	14,2*

\* mentioned values are subject to a tolerance of +/- 25%

**Temperature range:** -25°C to 100°C

### Chemical resistance

Resistant to: water up to 70°C, HFA, HFB, HFC Fluids, mineral/vegetable oils, Diesel fuel, Gasoline Fuel, Alcohols

Not Resistant to: Steam, HFD fluids, Ozone

### Main application

Static and dynamic seals (standard and special), wipers, O-rings, flange seals, rotary seals, rubber energizers (preload elements). General applications in petroleum fluids, water, greases, mineral oils.

#### Analysis and Evaluation

Values mentioned above are based on several tests performed during development and production of the material. Tests have been performed on standard test pieces specified within the relevant standard within the laboratory. Tests performed on any other pieces which are not related to the corresponding standard or made out of any (semi)finished part or any other part deviating in production process, dimension or age of the material from above may result in different values. The data represents our present empirical values and does not disengage the end user from their obligation to examine the usage of the material for each specific application.

We reserve the right to update this data sheet from time to time if new empirical values are available. Errors and omissions excepted.



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