

NBR 50 / 80-02-50000

50 ShA / sulphur crosslinked / FDA / black

- Acrylonitrile butadiene rubber
- Copolymer of butadiene and acrylonitrile
- Standard material, FDA compliant.
- Good mechanical properties.
- High abrasion resistance, good temperature resistance.
- Very good resistance to mineral oils, fuels and lubricants.

Property	Value	Unit	DIN Standard
Hardness	50 ±5	Shore A	DIN ISO 7619-1
Density	1,33 ±0,03	g/cm ³	DIN EN ISO 1183-1 A
Tensile strength at 100% elongation	–	N/mm ²	DIN 53504
Elongation at break	603	%	DIN 53504
Tensile strength	10,4	N/mm ²	DIN 53504
Compression set 70°C/24h	20	%	DIN ISO 815-1 B
Rebound resilience	35	%	DIN ISO 53512
Tear resistance	11,6	N/mm	DIN ISO 34-1 A
Tear resistance	20,5	N/mm	DIN ISO 34-1 B
min. operating temperature	-35	°C	constantly
max. operating temperature	+100	°C	constantly
max. operating temperature short	+140	°C	couple of hours

FDA confirmation

We hereby confirm that the above quality complies with the following guidelines and regulations:

FDA Code of Federal Regulation, Title 21 (CFR 21), Section 177.2600, Rubber Articles Intended for Repeated Use, Status as of 01.04.2005

Since, due to technically unavoidable conditions or delivery forms of the raw materials, the elastomeric mixtures contain traces of substances not listed in these recommendations and guidelines. In each case the prescribed tests shall be carried out on the finished part.

All above stated data result from random tests which were taken from the ongoing production. All data were established based on standard test-specimen according to ISO, DIN and ASTM standards and can basically not be carried over to the construction element.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party, and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.