

HNBR 70 / 80-09-70002

70 ShA / peroxide crosslinked / FDA / black

- Hydrogenated acrylonitrile-butadiene rubber
- Standard material; FDA compliant
- Exceptionally good thermal properties in the high and low temperature range.
- Very good resistance to ozone, ageing and weathering, high mechanical properties.
- Good resistance to oils, animal and vegetable fats, hydrocarbons and gas.
- Very good resistance to water and steam.

Property	Value	Unit	DIN Standard
Hardness	70 ±5	Shore A	DIN ISO 7619-1
Density	1,31	g/cm ³	DIN EN ISO 1183-1
Tensile strength at 100% elongation	2,7	N/mm ²	DIN 53504
Tensile strength at 300% elongation	6,9	N/mm ²	DIN 53504
Elongation at break	500	%	DIN 53504
Tensile strength	15,3	N/mm ²	DIN 53504
Compression set 150°C/24h	27,3	%	DIN ISO 815-1 B
Rebound resilience	39	%	DIN ISO 53512
Tear resistance	6,3	N/mm	DIN ISO 34-1 A
min. operating temperature	-25	°C	static
min. operating temperature	-20	°C	constantly
max. operating temperature	+150	°C	constantly
max. operating temperature short	+180	°C	couple of hours

FDA confirmation

The above mentioned quality used for the production of consumer goods in contact with food corresponds in Composition of the active substances:

The Positive List for aqueous foods according to CFR 21 § 177.2600, FDA "Rubber Articles Intended For Repeat Use", the Food and Drug Administration, USA.

The Positive List for fatty foods (also for milk and edible oils) according to CFR 21 § 177.2600, FDA, "Rubber Articles Intended For Repeat Use", of the Food and Drug Administration, USA.

Explicitly excluded is the use of the quality for baby teats.

Due to technically unavoidable conditions or delivery forms of the raw materials, the elastomer compound may contain traces of substances not listed in these recommendations and guidelines. In any case, the 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.