

H02 - H-NBR white

Hydrogenated acrylnitrile-butadiene-rubber

HNBR with foodstuff approval according FDA, recommended for approval acc. EU1935/2004

Resistant to mineral oil, HFC and cold water

Applicable for Rod and Piston seals, Wiper Seals, Rotary Seals and Static Seals

Properties	Value	Unit	DIN Standard
Hardness	81 ±5	Shore A	DIN ISO 7619-1
Density	1,431	g/cm ³	DIN EN ISO 1183-1
100% Modulus	5,7	MPa	DIN 53504
300% Modulus	10,6	MPa	DIN 53504
Elongation at break	419	%	DIN 53504
Tensile strength	11,2	MPa	DIN 53504
Compression set 23°C/70h	25,0	%	DIN ISO 815-1
Compression set 70°C/22h	34,0	%	DIN ISO 815-1
Compression set 150°C/22h	37,0	%	DIN ISO 815-1
Rebound resilience	25	%	DIN ISO 4662:2017
Tear resistance	11,2	N/mm	DIN ISO 34-1 A
Abrasion resistance	110	mm ³	DIN ISO 4649 B
min. Service temperature	-30	°C	
max. Service temperature	+150	°C	

Confirmation according FDA

Hereby we, Bex Srl, confirm, that all single components used for our compound named «**HNBR white**» are listed on Code of Federal Regulation of U.S. Food and Drug Administration (FDA), Rockville MD.

They are mentioned under following subchapters: **21CFR 177.2600**.

Confirmation according EU1935/2004

The confirmation according FDA mentioned above provides an approval according EU1935/2004. Due to unavoidable technical factors or due to the form of delivery of the elastomeric pre-materials traces of non-specified impurities could be included. A compulsory test should be applied to the final product.

Allowed for contact with foods. Not permitted for medical articles (implants)!

We explicitly point out that the user himself has to undertake tests, which will reassure the adequacy of the material mentioned above for the use in pharmaceutical and medical applications.

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.

Revisione 05.25

Bex s.r.l.

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