



HNBR diet

Hydrog. acrylnitrile-butadiene-rubber

Standard colour: green, similar RAL 6017

- Food-compliant HNBR
- 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	82 ± 5	Shore A	DIN 53505
Density	1,436	g/cm ³	DIN EN ISO 1183-1
Compression set 100°C/24h	31,0	%	DIN ISO 815-1
Compression set 150°C/24h	40,7	%	DIN ISO 815-1
Elongation at break	499	%	DIN 53504
Tensile strength	9,5	MPa	DIN 53504
100% modulus	4,4	MPa	DIN 53504
Rebound resilience	29	%	DIN 53512
Abrasion	110	mm ³	DIN 53516
Tear strength	12,8	N/mm	DIN 53515
min. service temperature	-30	°C	
max. service temperature	150	°C	

Confirmation according FDA

Hereby we, Trygonal, Kunststoffinnovationen GmbH, confirm, that all single components used for our compound named «**HNBR diet**» 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**

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

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

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.