



# HNBR ED

Hydrog. acrylnitrile-butadiene-rubber

Standard colour: black

- Against explosive decompression
- Resistant against mineral oil, HFC and cold water
- Applicable for Rod and Piston Seals, Wiper Seals, Rotary Seals and Static seals

Properties	Value	Unit	DIN Standard
<b>Hardness</b>	88 ± 5	Shore A	DIN 53505
<b>Density</b>	1,297	g/cm <sup>3</sup>	DIN EN ISO 1183-1
<b>Compression set 23°C/72h</b>	18,4	%	DIN ISO 815-1
<b>Compression set 100°C/24h</b>	18,6	%	DIN ISO 815-1
<b>Compression set 150°C/24h</b>	23,3	%	DIN ISO 815-1
<b>Elongation at break</b>	221	%	DIN 53504
<b>Tensile strength</b>	21,2	MPa	DIN 53504
<b>100 % modulus</b>	8,0	MPa	DIN 53504
<b>Rebound resilience</b>	36,0	%	DIN 53512
<b>Abrasion</b>	117	mm <sup>3</sup>	DIN 53516
<b>Tear strength</b>	5,3	N/mm	DIN 53515
<b>min. service temperature</b>	-30	°C	
<b>max. service temperature constant</b>	+150	°C	
<b>max. service temperature short</b>	+170	°C	

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.