

H-NBR ED

Hydrogenated acrylnitrile-butadiene-rubber, black

- Suitable against explosive decompression
- Resistant to mineral oil, HFC fluids and cold water
- Applicable for static seals, rod and piston seals, wiper seals and rotary seals

Properties	Value	Unit	DIN Standard
Hardness	88 ±5	Shore A	DIN ISO 7619-1
Density	1,297	g/cm ³	DIN EN ISO 1183-1
100% Modulus	8,0	MPa	DIN 53504
Elongation at break	221	%	DIN 53504
Tensile strength	21,2	MPa	DIN 53504
Compression set 23°C/70h	6,0	%	DIN ISO 815-1
Compression set 100°C/22h	18,6	%	DIN ISO 815-1
Compression set 150°C/22h	23,3	%	DIN ISO 815-1
Rebound resilience	36	%	DIN ISO 4662:2017
Tear resistance	5,3	N/mm	DIN ISO 34-1 A
Abrasion resistance	117	mm ³	DIN ISO 4649 B
min. Service temperature	-30	°C	
max. Service temperature	+150	°C	

This compound is tuned to fit the requirements according to NORSEK M-710. NORSEK M-710 calls out the requirements for critical non metallic, polymeric sealing materials in applications such as subsea use, control systems and valves. It provides standards for rapid gas decompression (RGD) also known as explosive decompression (ED) testing and sour gas (H₂S) aging on elastomers and thermoplastics. These tests give insight to the performance and life expectancy of a seal in various EOG 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.