

H-NBR HN112 - black (peroxide cross linked)

General

HN112-B85 is a black hydrogenated acrylnitrile-butadiene-rubber commonly referred to as H-NBR. Due to its good physical characteristics and chemical resistance to the most common hydraulic fluids it is an excellently suitable sealing material for a wide range of applications. H-NBR materials are often used in vegetable and animal oils as well as in highly addivated oils, sour oils/gases (H2S) and crude oils.

Physical properties

				±0,03
Density:	DIN ISO 1183-1	g/cm³	1,23	•
Hardness at 23°C:	DIN ISO 7619-1	Shore A	83	±5
100% Modulus:	DIN 53504	N/mm²	9,5	*
Tensile strength:	DIN 53504	N/mm²	19,3	*
Elongation at break:	DIN 53504	%	241,5	*
Tear resistance:	DIN ISO 34-1 B/b	N/mm	19,6	*
Rebound resiliance:	DIN 53512	%	28,0	*
Compression set, 24h, 70°C, 25%:	DIN ISO 815-1	%	15,0	*
Compression set, 24h, 100°C, 25%:	DIN ISO 815-1	%	13,5	*
Compression set, 24h, 150°C, 25% * mentioned values are subject to a to	DIN ISO 815-1	%	22,1	*

^{*} mentioned values are subject to a tolerance of +/- 25%

-25°C to 150°C **Temperature range:**

Chemical resistance

Water up to 90°C, HFA, HFB, HFC Fluids, Mineral Oils, Vegetable Resistant to:

Oils, Diesel Fuel, Ozone, Alcohols, Air up to 80°C

Not Resistant to: Steam

Main application

Static and dynamic seals (standard and special), wipers, O-rings, flange seals, rotary seals, rubber energizers (preload elements). General application in petroleum fluids, water, greases, mineral oils, oil and gas industry.

Analysis and Evaluation

Values mentioned above are based on several tests performed during development and production of the material. Tests have been performed on standard test pieces specified within the relevant standard within the laboratory. Tests performed on any other pieces which are not related to the corresponding standard or made out of any (semi)finished part or any other part deviating in production process, dimension or age of the material from above may result in different values. The data represent our present empirical values and do not disengage the processor or user from his obligation to examine the usage of the material for his specific application.

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