

HYDRO SEALING TECHNOLOGY SDN BHD (426172-P)

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HYDRO
House of Seals

Material Safety Data Sheet

RUBBER - HNBR

General Information

HNBR is a saturated acrylonitrile-butadiene rubber. It has good mechanical properties and good chemical resistance to mineral oils and greases, propane and butane, sulfonated crude oil, water-glycol mixtures and can be used at elevated temperatures.

Physical Properties

Colour :			black
Hardness at 20° :	DIN 53505	Shore A	85 +/- 2
Density :	DIN 53479	g/cm ³	1.23
100% Modulus :	DIN 53504	N/mm ²	> 10
300% Modulus :	DIN 53504	N/mm ²	
Tensile Strength :	DIN 53504	N/mm ²	> 18
Elongation at break :	DIN 53504	%	> 200
Rebound resilience :	DIN 53512	%	> 29
Tear Strength :	DIN 53515	N/mm ²	> 30
Abrasion :	DIN 53516	mm ³	<90
Compression set :**	DIN 53517	%	< 20
Min. service temperature :		°C	-25
Max. service temperature :		°C	150

* Compression set : 100°C, 22 hours.

Remark

All test methods and values mentioned above are corresponding to ASTM or DIN standards and have been tested on standardized plates in the laboratory. All tests are made under laboratory conditions.