



# OZ HNBR

## Hydrogenated Butadiene Rubber

### Design Description

HNBR has improved abrasion resistance while still retains high elasticity. Its service temperature range is from -20°C to 150°C. It also works for a short time in hot air up to 180°C.

it is resistant to non-polar and low-polar media (vegetable and animal fats) and in particular, mineral oils (lubricating oils, hydraulic oils or fuels), aliphatic hydrocarbons and HFA-, HFB-, HFC-liquids. It is also well-suited for the use in water, diluted inorganic acids and alkalis.

### Features

- Hydrogenated acrylonitrile butadiene rubber
- Suitable for applications involving aliphatic hydrocarbons such as fuel, propane, butane, mineral oils and greases
- May be used in diluted acids, alkalis and salt solutions

Properties	Specified	Unit	Value
Hardness	DIN 53505	Shore A	87 ± 3
Density	DIN 53479	g/cm <sup>3</sup>	1.23
Tensile strength	DIN 53504	MPa	20
Elongation at break	DIN 53504	%	300
Stress ratio 100%	DIN 53504	N/mm <sup>2</sup>	12.5
Compression set			
70h/100°C	ASTM D 395B	%	21
Tear strength	DIN 53507	N/mm	33
Abrasion	DIN 53516	mm <sup>2</sup>	110
Min. application temp		°C	-35
Max application temp		°C	150
Immersion in ASTM oil #3 oil acc to DIN 53521 70h 100°C			
Shore hardness change	DIN 53505	Shore A	5
Volume change	DIN 53521	%	15
Tensile strength change			-10
Elongation change			± 25
Immersion in Air 168h 150°C			
Shore hardness change	DIN 53505	Shore A	5
Volume change	DIN 53521	%	0
Immersion in Water 70h 100°C			
Shore hardness change	DIN 53505	Shore A	0
Volume change	DIN 53521	%	2.5