

## **Design Description**

HNBR has improved abrasion resistance while still retaining its high elasticity. Offering high levels of oil and heat resistance, providing a service temperature range of  $-20^{\circ}$ C to  $150^{\circ}$ C and can even last for a short time in hot air up to  $180^{\circ}$ C.

It is resistant to non-polar and low-polar media (vegetable and animal fats) and in particular, min-eral 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. Providing an optimal explosive decompression resistance.

## **Features**

- Hydrogenated acrylonitrile butadiene rubber
- Suitable for applications involving aliphatic hydrocarbons such as fuel, propane, butane, mineral oils and greases
- Exceptional explosive decompression resistance
- 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/cm³	1.23
Tensile strength	DIN 53504	MPa	20
Elongation at break	DIN 53504	%	300
Stress ratio 100%	DIN 53504	N/mm²	12.5
Compression set			
70h/100°C	ASTM D 395B	%	21
Tearstrength	DIN 53507	N/mm	33
Abrasion	DIN 53516	mm²	110
Min. application temp		0C	-20
Max application temp		°C	150
Immersion in ASTM oil #3 oil acc to DIN 5352170h 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



