



# OZ NBR Nitrile Butadiene Rubber

## Design Description

OZ NBR has improved abrasion resistance while still retains high elasticity. Its service temperature range is from -20°C to 150°C.

It is also well-suited for the use in water, diluted inorganic acids and alkalis. The material is not resistant to aromatic and polar solvents, concentrated acids and alkalis

## Features

- Good mechanical resistance
- Resistance to fuel, Mineral oils and common solvents
- Low compression set
- Good heat resistance up to 1000C
- Preferred material

Properties	Standard	Unit	Value
Hardness	DIN 53505	Shore A	87 ± 3
Density	DIN 53479	g/cm <sup>3</sup>	1.28
Tensile strength	DIN 53504	MPa	18
Elongation at break	DIN 53504	%	300
Tensile strength @ 100% Elongation		MPa	10
<b>COMPRESSION SET</b>			
22h/100°C	ASTM D 395B	%	24
Tear strength	DIN 3507	N/mm	33
Abrasion	DIN 53516	mm <sup>2</sup>	130
Min. application temp		0C	-30
Max application temp		0C	100
<b>IMMERSION IN ASTM OIL #3 OIL acc to DIN 52521 70h 1000C</b>			
Shore hardness change	DIN 53505	Shore A	+5
Volume change	DIN 53521	%	+16
Tensile strength change			-18