



NBR Nitrile Butadiene Rubber

BTNB85 BLACK

- For general applications
- Resistant to mineral oil, HFC and cold water
- Applicable for rod and piston seals, wiper seals, rotary seals and static seals

Mechanical, Physical and Thermal Properties

Properties	Condition	Standard	Unit		Unit	
Hardness	23°C	ISO 868	Shore A	85 ± 5	Shore A	85 ± 5
Modulus 100%	23°C	DIN 53 504	MPa	≥ 11	psi	≥ 1595
Tensile Strength	23°C	DIN 53 504	MPa	≥ 17	psi	≥ 2465
Elongation At Break	23°C	DIN 53 504	%	≥ 150	%	≥ 150
Tear Strength	23°C	DIN ISO 34-1	kN/m	≥ 18	lbf/inch	≥ 102
Spec. Gravity	23°C	ISO 1183	kg/m ³	1280	g/cm ³	1,28
Rebound Elasticity	23°C	DIN 53 512	%	20	%	20
Abrasion	23°C	DIN 53 516	mm ³	100	mm ³	100
Compression Set	70°C / 24 hours	ISO 815	%	≤ 5	%	≤ 5
Compression Set	70°C / 70 hours	ISO 815	%	≤ 6	%	≤ 5
Compression Set	100°C / 24 hours	ISO 815	%			
<i>Minimum Service Temperature</i>			°C	-30	°F	-22
<i>Maximum Service Temperature Continuous</i>			°C	100	°F	230

Chemical Properties

- Copolymer, based on butadiene and acrylonitrile
- Resistant to oil, petrol and crude oil
- Not resistant to con. acids, conc. lyes and polar solvents

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