

NBR white
Mechanical, Physical and Thermal Properties
Nitrile butadiene rubber

properties	condition	standard	unit		unit	
colour				white		white
hardness	23°C	ISO 868	Shore A	85 ± 5	Shore A	85 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 8	psi	≥ 1160
tensile strength	23°C	DIN 53 504	MPa	≥ 15	psi	≥ 1450
elongation at break	23°C	DIN 53 504	%	≥ 200	%	≥ 200
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 18	lbf/inch	≥ 102
spec. gravity	23°C	ISO 1183	kg/m ³	1440	g/cm ³	1,44
rebound elasticity	23°C	DIN 53 512	%	23	%	23
abrasion	23°C	DIN 53 516	mm ³	140	mm ³	140
compression set	*	ISO 815	%	≤ 7	%	≤ 7
compression set	**	ISO 815	%	≤ 9	%	≤ 9
compression set	***	ISO 815	%		%	
minimum service temperature			°C	-30	°F	-22
maximum service temperature			°C	110	°F	230
temp. max water/steam			°C		°F	
temp. max hot air			°C		°F	

* 24h 70°C 25% def.

** 24h 100°C 25% def.

*** 24h 150°C 25% def.

Chemical Properties

Copolymer, based on butadiene and acrylonitrile

Resistant to: oil, petrol, hot air, ozone and crude oil

Not resistant to: conc. acids, conc. lyes and polar solvents

Foodstuff approval: -