

Nitrile butadiene rubber

Mechanical, Physical and Thermal Properties

properties	condition	standard	unit		unit	
colour				black		black
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	*	ISO 815	%	≤ 5	%	≤ 5
compression set	**	ISO 815	%	≤ 6	%	≤ 6
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 and crude oil

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

Foodstuff approval: -