

NBR FDA

Mechanical, Physical and Thermal Properties

Nitrile butadiene rubber

properties	condition	standard	unit	unit	unit
colour				blue	blue
hardness	23°C	ISO 868	Shore A	80 ± 5	Shore A 80 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 5	psi ≥ 725
tensile strength	23°C	DIN 53 504	MPa	≥ 8	psi ≥ 1160
elongation at break	23°C	DIN 53 504	%	≥ 140	% ≥ 140
tear strength	23°C	DIN ISO 34-1	kN/m		lbf/inch
spec. gravity	23°C	ISO 1183	kg/m ³	1230	g/cm ³ 1,23
rebound elasticity	23°C	DIN 53 512	%		%
abrasion	23°C	DIN 53 516	mm ³	248	mm ³ 248
compression set	*	ISO 815	%	≤ 13	% ≤ 13
compression set	**	ISO 815	%		%
compression set	***	ISO 815	%		%
minimum service temperature			°C	-30	°F -22
maximum service temperature			°C	100	°F 212
temp. max water/steam			°C		°F
temp. max hot air			°C		°F

* 24h 70°C 25% def.

** 24h 100°C 25% def.

*** 24h 175°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

Detailed information concerning chemical resistance see Chemical Resistance Guide

DUBLIN

John F. Kennedy Rd
John F. Kennedy Ind Est
Dublin D12 PD36

T: +353 (0)1 427 7900
F: +353 (0)1 450 8181
E: dublin@abbeyseals.ie

CORK

31B Euro Business Park
Little Island
Cork T45 X310

T: +353 (0)21 500 3555
F: +353 (0)21 500 3554
E: cork@abbeyseals.ie