

DMH 307 NBR 73 Nitrile butadiene rubber

Mechanical, Physical and Thermal Properties

properties	condition	standard	unit	unit	unit
colour				black	black
hardness	23°C/3 sec.	ISO 868	Shore A	75 ± 5	Shore A 75 ± 5
hardness	23°C/15 sec.	ISO 868	Shore A	71 ± 5	Shore A 71 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 7	psi ≥ 1015
tensile strength	23°C	DIN 53 504	MPa	≥ 16	psi ≥ 2320
elongation at break	23°C	DIN 53 504	%	≥ 190	% ≥ 190
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 5	lbf/inch ≥ 28
spec. gravity	23°C	ISO 1183	kg/m ³	1230	g/cm ³ 1,23
rebound elasticity	23°C	DIN 53 512	%	28	% 28
abrasion	23°C	DIN 53 516	mm ³	132	mm ³ 132
compression set	*	ISO 815	%	≤ 5	% ≤ 5
compression set	**	ISO 815	%	≤ 8	% ≤ 8
compression set	***	ISO 815	%		%
minimum service temperature			°C	-30	°F -22
maximum service temperature			°C	90	°F 194
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. acids, conc. lyes and polar solvents

Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH GmbH

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DMH Dichtungs- und Maschinenhandel GmbH

A-8772 Traboch  Industriepark West 11

T: +43 (0)3833/200 60-0  F: +43 (0)3833/200 60-500

E: office@dmh.at  www.dmh.at

