

MATERIAL DATASHEET

DMH 301 NBR White

Mechanical, Physical and Thermal Properties

Nitrile butadiene rubber

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				white		white
hardness	23°C/3 sek.	ISO 868	Shore A	85 ± 5	Shore A	85 ± 5
hardness	23°C/15 sek.	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	%	≥ 180	%	≥ 180
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, short			°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, crude oil

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

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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH

DMH Dichtungs- und Maschinenhandel GmbH

Industriepark West 11

8772 Traboch, Österreich

+43 833 200 60 0

