

## DMH 301 NBR White Nitrile butadiene rubber

### Mechanical, Physical and Thermal Properties

properties	condition	standard	unit	white	unit	white
colour				<b>white</b>		<b>white</b>
hardness	<b>23°C/3 sec.</b>	ISO 868	Shore A	<b>85 ± 5</b>	Shore A	<b>85 ± 5</b>
hardness	<b>23°C/15 sec.</b>	ISO 868	Shore A	<b>85 ± 5</b>	Shore A	<b>85 ± 5</b>
modulus 100%	<b>23°C</b>	DIN 53 504	MPa	<b>≥ 8</b>	psi	<b>≥ 1160</b>
tensile strength	<b>23°C</b>	DIN 53 504	MPa	<b>≥ 15</b>	psi	<b>≥ 1450</b>
elongation at break	<b>23°C</b>	DIN 53 504	%	<b>≥ 180</b>	%	<b>≥ 180</b>
tear strength	<b>23°C</b>	DIN ISO 34-1	kN/m	<b>≥ 18</b>	lbf/inch	<b>≥ 102</b>
spec. gravity	<b>23°C</b>	ISO 1183	kg/m <sup>3</sup>	<b>1440</b>	g/cm <sup>3</sup>	<b>1,44</b>
rebound elasticity	<b>23°C</b>	DIN 53 512	%	<b>23</b>	%	<b>23</b>
abrasion	<b>23°C</b>	DIN 53 516	mm <sup>3</sup>	<b>140</b>	mm <sup>3</sup>	<b>140</b>
compression set	*	ISO 815	%	<b>≤ 7</b>	%	<b>≤ 7</b>
compression set	**	ISO 815	%	<b>≤ 9</b>	%	<b>≤ 9</b>
compression set	***	ISO 815	%		%	
minimum service temperature			°C	<b>-30</b>	°F	<b>-22</b>
maximum service temperature			°C	<b>110</b>	°F	<b>230</b>
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, crude oil*

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

Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH GmbH

revision: 04-2020

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

