

## DMH 313 H-NBR black Highly saturated nitrile butadiene rubber Mechanical, Physical and Thermal Properties

properties	condition	standard	unit	unit	unit
colour				<b>black</b>	<b>black</b>
hardness	23°C	ISO 868	Shore A	<b>82 ± 5</b>	Shore A <b>82 ± 5</b>
modulus 100%	23°C	DIN 53 504	MPa	<b>≥ 9</b>	psi <b>≥ 1305</b>
tensile strength	23°C	DIN 53 504	MPa	<b>≥ 18</b>	psi <b>≥ 2610</b>
elongation at break	23°C	DIN 53 504	%	<b>≥ 180</b>	% <b>≥ 180</b>
tear strength	23°C	DIN ISO 34-1	kN/m	<b>≥ 6</b>	lbf/inch <b>≥ 34</b>
spec. gravity	23°C	ISO 1183	kg/m <sup>3</sup>	<b>1230</b>	g/cm <sup>3</sup> <b>1,23</b>
rebound elasticity	23°C	DIN 53 512	%		%
abrasion	23°C	DIN 53 516	mm <sup>3</sup>	<b>120</b>	mm <sup>3</sup> <b>120</b>
compression set	*	ISO 815	%	<b>≤ 18</b>	% <b>≤ 18</b>
compression set	**	ISO 815	%	<b>≤ 22</b>	% <b>≤ 22</b>
compression set	***	ISO 815	%		%
minimum service temperature			°C	<b>-20</b>	°F <b>-4</b>
maximum service temperature			°C	<b>150</b>	°F <b>302</b>
temp. max water/steam			°C	<b>120</b>	°F <b>248</b>
temp. max hot air			°C	<b>180</b>	°F <b>356</b>

\* 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, hot water, hot air, ozone and crude oil

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

Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

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