

MATERIAL DATASHEET

DMH 313 H-NBR black

Mechanical, Physical and Thermal Properties

Highly saturated nitrile butadiene rubber

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				schwarz		Black
hardness	23°C/3 sek.	ISO 868	Shore A	82 ± 5	Shore A	82 ± 5
hardness	23°C/15 sek	ISO 868	Shore A		Shore A	
modulus 100%	23°C	DIN 53 504	MPa	≥ 9	psi	≥ 1305
tensile strength	23°C	DIN 53 504	MPa	≥ 18	psi	≥ 2610
elongation at break	23°C	DIN 53 504	%	≥ 180	%	≥ 180
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 6	lbf/inch	≥ 34
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	120	mm ³	120
compression set	*	ISO 815	%	≤ 18	%	≤ 18
compression set	**	ISO 815	%	≤ 22	%	≤ 22
compression set	***	ISO 815	%		%	
minimum service temperature			°C	-20	°F	-4
maximum service temperature			°C	150	°F	302
temp. max water/steam			°C	120	°F	248
temp. max hot air, short			°C	180	°F	356

* 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

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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH

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