

MATERIAL DATASHEET

312 H-NBR ED

Mechanical, Physical and Thermal Properties

Highly saturated nitrile butadiene rubber

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				black		black
hardness	23°C/3 sek.	ISO 868	Shore A	83 ± 5	Shore A	83 ± 5
hardness	23°C /3 sek.	ISO 868	Shore A	83 ± 5	Shore A	83 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 7	psi	≥ 1015
tensile strength	23°C	DIN 53 504	MPa	≥ 17	psi	≥ 2465
elongation at break	23°C	DIN 53 504	%	≥ 190	%	≥ 190
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 21	lbf/inch	≥ 119
spec. gravity	23°C	ISO 1183	kg/m ³	1290	g/cm ³	1,29
rebound elasticity	23°C	DIN 53 512	%	30	%	30
abrasion	23°C	DIN 53 516	mm ³	184	mm ³	184
compression set	*	ISO 815	%	≤ 17	%	≤ 17
compression set	**	ISO 815	%	≤ 21	%	≤ 21
compression set	***	ISO 815	%	≤ 30	%	≤ 30
minimum service temperature			°C	-15	°F	5
maximum service temperature			°C	150	°F	302
temp. max water/steam			°C	110	°F	230
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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