

N05 - NBR FDA Blue

Nitrile butadiene rubber

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				blue		blue
hardness	23°C/3 sek.	ISO 868	Shore A	80 ± 5	Shore A	80 ± 5
hardness	23°C/15 sek.	ISO 868	Shore A	75 ± 5	Shore A	75 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 5	psi	≥ 725
tensile strength	23°C	DIN 53 504	MPa	≥ 8	psi	≥ 1160
elongation at break	23°C	DIN 53 504	%	≥ 140	%	≥ 140
tear strength	23°C	DIN ISO 34-1	kN/m		lbf/inch	
spec. gravity	23°C	ISO 1183	kg/m ³	1230	g/cm ³	1,23
rebound elasticity	23°C	DIN 53 512	%		%	
abrasion	23°C	DIN 53 516	mm ³	248	mm ³	248
compression set	*	ISO 815	%	≤ 13	%	≤ 13
compression set	**	ISO 815	%		%	
compression set	***	ISO 815	%		%	
minimum service temperature			°C	-30	°F	-22
maximum service temperature			°C	100	°F	212
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 and crude oil

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