NBR Hardness 85° Shore A Black

Nitrile butadiene rubber

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Black		Black
Hardness	23°C	ISO 868	Shore A	85±5	Shore A	85±5
Modulus 100%	23°C	DIN 53 504	MPa	≥11	Psi	≥1595
Tensile strength	23°C	DIN 53 504	MPa	≥17	Psi	≥2465
Elongation at break	23°C	DIN 53 504	%	≥150	%	≥150
Tear strength	23°C	DIN 53 515	kN/m	≥9	Ibf/inch	≥51
Spec. gravity	23°C	ISO 1183	Kg/m^3	1320	g/cm^3	1,32
Rebound elasticity	23°c	DIN 53 512	%	≥20	%	≥20
Abrasion	23°C	DIN 53 516	mm^3	130	mm^3	130
Compression set	*	ISO 815	%	≤5	%	≤5
Compression set	**	ISO 815	%	≤6	%	≤6
Compression set	***	ISO 815	%		%	
Minimum service temperature			°C	-35	°F	-31
Maximum service temperature			°C	120	°F	248
Temp maximum water steam			°C		°F	
Temp maximum hot air			°C		°F	
* 24 h 70°C 25% deflection	** 24h 100°C 25% deflection			*** 24h 150°C 25% deflection		

Chemical Properties

Copolymer, based on butadiene and acrylonitrile

Resistant to: oil, petrol, hot water, hot air, ozone, crude oil

Not resistant to: conc. acids, conc. lyes, polare solvents

Detailed information concerning chemical resistance see Rhondama Compatibility Chart