

## NBR Hardness 85° Shore A White

Nitrile butadiene rubber

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### Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				White		White
Hardness	23°C	ISO 868	Shore A	85±5	Shore A	85±5
Modulus 100%	23°C	DIN 53 504	MPa	≥8	Psi	≥1160
Tensile strength	23°C	DIN 53 504	MPa	≥15	Psi	≥2175
Elongation at break	23°C	DIN 53 504	%	≥200	%	≥200
Tear strength	23°C	DIN 53 515	kN/m	≥10	Ibf/inch	≥57
Spec. gravity	23°C	ISO 1183	Kg/m <sup>3</sup>	1440	g/cm <sup>3</sup>	1,44
Rebound elasticity	23°C	DIN 53 512	%	≥23	%	≥23
Abrasion	23°C	DIN 53 516	mm <sup>3</sup>	140	mm <sup>3</sup>	140
Compression set	*	ISO 815	%	≤7	%	≤7
Compression set	**	ISO 815	%	≤9	%	≤9
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				

### 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*