

# Specification Sheet

**Description:** Acrylonitrile Butadiene Rubber (NBR)  
**Material:** N01/000

<b>Property</b>	<b>Spec</b>	<b>Value</b>
<b>Hardness</b>	DIN 53505	85A
<b>Hardness</b>	DIN 53505	
<b>Specific Gravity</b>	DIN 53479	1.32 g/cm <sup>3</sup>
<b>Tensile Strength</b>	DIN 53504	17 N/mm <sup>2</sup>
<b>Ultimate Elongation</b>	DIN 53504	150%
<b>20% Modulus</b>	DIN 53504	N/mm <sup>2</sup>
<b>100% Modulus</b>	DIN 53504	11 N/mm <sup>2</sup>
<b>300% Modulus</b>	DIN 53504	N/mm <sup>2</sup>
<b>Elasticity</b>	DIN 53512	20%
<b>Tear Strength</b>	DIN 53507	9 N/mm <sup>2</sup>
<b>Abrasion</b>	DIN 53516	130 mm <sup>3</sup>
<b>Impact Resilience</b>	DIN 53512	-
<b>Compression Set 70C 22 Hrs</b>	DIN 53517	-
<b>Compression Set 100C 22hrs</b>	DIN 53517	9%
<b>Brittle Point</b>	DIN 53479	-
<b>Minimum Service Temp.</b>		-35° C -31° F
<b>Maximum Service Temp.</b>		120° C 248° F
<b>Color</b>		Black

## Description:

NBR is a elastomer based on acrylonitrile butadiene rubber which is widely used in many different sealing profiles and components. NBR is very abrasion resistant and is highly elastic which allows for easy installation. This material is frequently used in hydraulic and pneumatic systems because of its excellent resistance to the majority of mineral oil-based fluids and greases. NBR also works well in water-based fire resistant fluids.