

## Material Data Sheet | **Nitrile (“Buna-N”)**

**Nitrile (“Buna-N”)** exhibits low compression set, high abrasion resistance, and high tensile strength. It is an oil resistant polymer which has good solvent, oil, water, and hydraulic fluid resistance. It is not as flexible with poor ozone, sunlight, temperature and weather resistance.

TECHNICAL INFORMATION	
<b>Common Names</b>	Nitrile, BUNA-N, NBR
<b>Adhesion to Metals</b>	Excellent
<b>Military (MIL STD 417)</b>	SB
<b>Chemical Definition</b>	Butadiene Acrylonitrile
<b>Tensile Range (P.S.I)</b>	200 – 3000
<b>Oil Resistance</b>	Good to Excellent
<b>Durometer Range (Shore A)</b>	45 – 95
<b>Compression Set</b>	Good
<b>High Temperature Usage (F°)</b>	to 250°
<b>Abrasion Resistance</b>	Excellent
<b>Tear Resistance</b>	Good
<b>Solvent Resistance</b>	Good to Excellent
<b>Resilience – Rebound</b>	Good
<b>Aging Weather – Sunlight</b>	Poor
<b>Elongation (max. %)</b>	600
<b>ASTM D-2000 Classification</b>	BF, BG, BK
<b>Low Temperature Usage (F°)</b>	30° to -40°