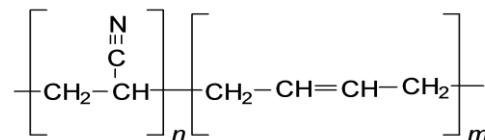


## Nitrile Butadiene Elastomer (NBR)



### SPECIFICATIONS

Property	Spec	Value
<b>Physical Properties – BF714</b> Hardness Shore A Tensile Strength Elongation Specific Gravity	<b>D2240</b> <b>D412 Die C</b> <b>D412 Die C</b> <b>D1817</b>	<b>70 ± 5</b> <b>14 min. MPa</b> <b>250 min. %</b> -
<b>Heat Resistance – (100°C x 70 hrs)</b> <b>BF Basic Requirements</b> Hardness Change Tensile Strength Change Elongation Change Volume Change	<b>D573</b>	<b>+5 points</b> <b>+14 %</b> <b>-12 %</b> <b>-3 %</b>
<b>Compression Set – (100°C x 22 hrs)</b> <b>B14</b>	<b>D395B</b>	<b>8 %</b>
<b>IRM 901 Oil – (100°C x 70 hrs) –</b> <b>E014</b> Hardness Change Tensile Strength Change Elongation Change Volume Change	<b>D471</b>	<b>-1 points</b> <b>+13 %</b> <b>-3 %</b> <b>-1 %</b>
<b>IRM 903 Oil – (100°C x 70 hrs) –</b> <b>E034</b> Hardness Change Tensile Strength Change Elongation Change Volume Change	<b>D471</b>	<b>-18 points</b> <b>-7 %</b> <b>-12 %</b> <b>+38 %</b>
<b>Low-temperature resistance –</b> <b>(-55°C x 3 min) – F19</b>	<b>D2137</b>	<b>Non brittle</b>
<b>Color</b>		<b>Black</b>

### DESCRIPTION

MN323 is a NBR material with hardness 70±5 Shore A. Nitrile elastomer NBR is an amorphous random copolymer of butadiene and acrylonitrile. There are numerous NBR copolymers available globally. As a thermoset elastomer, an NBR compound consists of NBR copolymer, carbon black reinforcement fillers, curing agents, molding process aids and specialty additives. NBR articles are molded by injection, transfer, compression or extrusion processes. NBR lends itself to a virtually infinite number of compounded materials and versatile in applications. The essential feature of NBR elastomer is the presence of Nitrile. This polar group is responsible for its significantly increased chemical resistance.