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# NBR 85

## Material : Acrylonitrile Butadiene Rubber (NBR)

Physical properties	Nominal	Units
<b>Hardness</b> ASTM D 2240, 23°C	85-90	Shore A
<b>Tensile strength</b> ASTM D 412, 23°C	> 102	Kg/cm <sup>2</sup>
<b>Elongation at break</b> ASTM D 412, 23°C	> 100	%
<b>Compression set</b> ASTM D 395, 100°C, 22 h, 25 %	< 25	%
<b>Air Ageing</b> ASTM D 573, 100°C, 70 h		
Hardness Change	<(+15)	Points
Tensile Change	<(-20)	%
Elongation Change	<(-40)	%
<b>Fluid Resistance, IRM-901</b> ASTM D 471, 100°C, 70 h		
Hardness Change	-5 to+15	Points
Tensile Change	<(-25)	%
Elongation Change	<(-45)	%
Volume Change	-10 to +5	%
<b>Fluid Resistance, IRM-903</b> ASTM D 471, 100°C, 70 h		
Hardness Change	<(-15)	Points
Tensile Change	<(-45)	%
Elongation Change	<(-45)	%
Volume Change	0 to +35	%
<b>Specific Gravity</b> ASTM D 792, 23°C		
	1.28 ± 0.02	g/cc
<b>Ash Content</b> 800°C, 2 Hrs		
	<(5)	%
<b>Operating Temperature</b>	-30 to 100	°C