

**Material data sheet
NBR 90Ozone resistance**

Properties

Property	Standard	Unit	Required value	Value
Hardness	ASTM D2240	IRHD	90+/-5	86
	<i>Cross section mm</i>			
Tensile strength	ASTM D412	MPa	>10	15.3
Specific gravity	ASTM D1817	g/ cm3		1.318
Maximum elongation	ASTM D412	%	>100	154
Modulus	ASTM D412	MPa		12.8
	<i>Elongation 200 %</i>			
Compression set	ASTM D395/ B	%	<25	11
	<i>Initial deformation 25 % - Temperature 100 °C - Duration 22 h - Media Air</i>			
	ASTM D395/ B	%		27
	<i>Initial deformation 25 % - Temperature 125 °C - Duration 22 h - Media Air</i>			
Ozone resistance	ASTM D395/ B	%		22
	<i>Initial deformation 25 % - Temperature 100 °C - Duration 70 h - Media Air</i>			
Tear strength	ASTM D 1171			OK
	<i>Temperature 40 °C - Duration 96 h - Concentration 5 0 pphm - Elongation 20 %</i>			
	ASTM D624/ B	N/mm		48

Ageing

Media	Temperature °C	Duration h	Traction %	Elongation %	Hardness Pts	Volume %	Weight %
Air	100 °C	70 h	-20 <= -2 <=	-40 <= -20 <=	-15 <= 2 <= 15	-1,9	
Water	100 °C	70 h	12	-4	-11	15 <= 20,5 <= 1	
Fuel A	23 °C	70 h	1	2	-1	0,4	
Fuel B	23 °C	70 h	-18	-19	-16	17,4	
IRM 903	100 °C	70 h	-45 <= 9 <=	-45 <= -9 <=	-20 <= -6 <= 0	0 <= 4,6 <= 35	
IRM 901	100 °C	70 h	-25 <= 7 <=	-45 <= -12 <=	-5 <= 4 <= 15	-10 <= -6,2 <= 5	