

Material data sheet 70551

NBR 90

Ozone resistance

Indicative temperature range : **-20°C / 100°C**

Color : **Black**

RoHS (2002/95)

VHU (2000/53)

SVHC¹ Free

Phthalate Free

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/cm ³		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>			
	ASTM D395/B	%		22
Ozone resistance	<i>Initial deformation 25 % - Temperature 100 °C - Duration 70 h - Media Air</i>			
	ASTM D 1171			OK
Tear strength	<i>Temperature 40 °C - Duration 96 h - Concentration 50 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 <= 15	
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	

SVHC = Substance of Very High Concern according to regulation REACH 1907/2006

These data are for information only.

They can be modified at any moment without notice.

Values indicated above are based on tests conducted on laboratory samples.

Values on finished parts can be different depending on shape, curing parameters etc.