

## Material test report HNBR 90

Colour	Green	Temp. range	-30°C / +150°C		
Property	Unit	Test method	Test parameter	Value	
Hardness	IRHD	ASTM D 1415		90 ±5	
Tensile strength	MPa	ASTM D 412		18,6	
Ultimate elongation	%	ASTM D 412		105	
Specific gravity	g/cm <sup>3</sup>	ASTM D297		1,36	
Compression set	%	ASTM D 395 B	22h / 150°C	23	
Low temp. resistance	°C	ASTM D 2137	brittleness no cracks after 3 min. at	-40	
Low temp. resistance	°C	ASTM D 1329	TR10	-23,2	

### Changes of properties after ageing

Medium	Test method	Time	Temperature	Hardness	Tensile strength	Ultimate elongation	Volume
		H	°C	Points	%	%	%
Air	ASTM D 573	70	150	+5	+17	-20	
ASTM IRM oil 901	ASTM D 471	70	150	+4	+11	+2	0
ASTM IRM oil 903	ASTM D 471	70	150	-3	-3	-17	+14

The above indicated data were determined to the best knowledge according to modern laboratory standards on standardised test specimen. If these data are compared with data which were determined on finished parts it may come to variations.