

# 158001226

## HNBR 80 black

Rev. 05

### General Application Temperature Range

From -25°C  
To +150°C

### General Environmental Application

Coolant  
Ozone  
UV Rays  
Mineral Oil  
H2S

### Curing System

Peroxide

### Compliances

#### Disclaimer

Tests performed on test slabs. Temperatures, applications, and indications are meant as basic suggestions and valid for static applications with no other specific media and or conditions.

### PHYSICAL AND MECHANICAL PROPRIETIES

Property	Test STD	Unit	Value
Density	DIN 53479	g/cm3	1.31 ± 0.03
Hardness	DIN 53405	Shore A	80 ± 5
Tensile Strength	DIN 53404	N/mm2	>19
Elongation	DIN 53404	%	>175

### LOW TEMPERATURE RESISTANCE

Property	Test STD	Unit	Value
TR10	ASTM D1329	°C	< -15

### COMPRESSION SET TESTS

Parameters	Test STD	Unit	Value
24h @ 200°C	DIN 53517	%	< 15
72h @ 200°C	DIN 53517	%	< 22

### AGEING PROPERTIES

Heat Aging - 70h @ 150°C		Standard: DIN 53508	
Properties	Unit	Value	
Hardness	Shore A	+4.5	
Tensile Strength	%	+0.5	
Elongation	%	-8.0	
Volume	%	-1.9	
Weight	%	-1.2	

Heat Aging - 168h @ 150°C		Standard: DIN 53508	
Properties	Unit	Value	
Hardness	Shore A	+6.5	
Tensile Strength	%	+1.5	
Elongation	%	-8.7	
Volume	%	-3.0	
Weight	%	-2.0	

IRM OIL 901 - 70h @150°C		Standard: DIN 53521	
Properties	Unit	Value	
Hardness	Shore A	-0.5	
Tensile Strength	%	+6.0	
Elongation	%		
Volume	%	-1.4	
Weight	%	-1.0	

IRM OIL 903 - 72h @ 150°C		Standard: ISO 1817	
Properties	Unit	Value	
Hardness	Shore A	-9.0	
Tensile Strength	%	-2.0	
Elongation	%	-29.0	
Volume	%	+13.0	
Weight	%	+9.0	