

Material name, short description	HNBR
Material name, based on technical standards	Hydrogenated acrylonitrile butadien rubber
Material description / intended use	Elastomer with good resistance against ozone, weathering, aging, hot water and various oils.
Color	black
Compound code	HNBR 70.00-01
Crosslinking/curing agent	Peroxide
Manufacturing process	moulded parts
Remarks	ACN content 36%

Mechanical properties

Hardness nominal	70 ±5 IRHD ASTM D 1415
Density nominal	1.23 g/cm³ ASTM D 297
Tensile strength	20.3 N/mm² ASTM D 412
Elongation at break	347 % ASTM D 412
Compression set	26 % ASTM D 395-B 22 h, 150 °C

Thermal properties

Operating temperature min.*	-30 °C
Operating temperature max.*	150 °C
TR 10 value	-21.9 °C ASTM D 1329
Brittleness point	-55 °C ASTM D 2137

* Approximate value, dependent on the application

Storage in medium 1

Medium	IRM 901 Oil (ASTM 1)
Test parameter	70 h, 150 °C
Test standard	ASTM D 471
Value change	Hardness: +2 Points Tensile strength: -1 % Elongation at break: -6 % Volume: -3 %

Storage in medium 2

Medium	IRM 903 Oil (ASTM 3)
Test parameter	70 h, 150 °C
Test standard	ASTM D 471
Value change	Hardness: -7 Points Tensile strength: -14 % Elongation at break: -21 % Volume: +11 %

Air aging 1

Test parameter	70 h, 150 °C
Test standard	ASTM D 573
Value change	Hardness: +7 Points Tensile strength: -6 % Elongation at break: -4 %

In compliance with **RoHS** and **REACH** directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.