

Material Data Sheet

UTECRUBBER-N

General Information

UTECRUBBER-N is a acrylonitrile-butadiene rubber commonly known as NBR, Nitrile or BUNA. It has good mechanical properties and chemical resistance to mineral oils and greases, HFA, HFB and HFC fire resistant pressure fluids. NBR is one of the most used elastomers in the sealing industry.

Physical properties

Colour:			black
Hardness at 20°:	DIN 53505	Shore A	85 +/-2
Density:	DIN 53479	g/cm ³	1.32
100% Modulus:	DIN 53504	N/mm ²	> 11
300% Modulus:	DIN 53504	N/mm ²	
Tensile strength:	DIN 53504	N/mm ²	> 17
Elongation at break:	DIN 53504	%	> 155
Rebound resilience:	DIN 53512	%	> 28
Tear strength:	DIN 53515	N/mm ²	> 20
Abrasion:	DIN 53516	mm ³	< 90
Compression set:**	DIN 53517	%	< 15
Min. service temperature:		°C	-30
Max. service temperature:		°C	100

* Compression set: 100°C, 22 hours.

Remark

All test methods and values mentioned above are corresponding to ASTM or DIN standards and have been tested on standardized plates in the laboratory. All tests are made under laboratory conditions.

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