



Material data sheet

T-NBR – black

Low temperature Nitrile butadiene rubber

Resistant to: oil, petrol, crude oil

<i>Properties</i>	<i>Condition</i>	<i>Standard</i>	<i>Unit</i>			
Colour				black		
Hardness	23°C	ISO 868	Shore A	80+/-5	Shore A	80+/-5
Modulus 100%	23°C	DIN 53 504	MPa	9	Psi	1305
Tensile strength	23°C	DIN 53 504	MPa	14	Psi	2031
Elongation at break	23°C	DIN 53 504	%	140	%	140
Tear strength	23°C	DIN ISO 34-1 Methode B	kN/m	15	Lbf/inch	85
Spec. Gravity	23°C	ISO 1183	kg/m³	1270	g/cm³	1,27
Rebound elasticity	23°C	DIN 53 512	%	50	%	50
Abrasion	23°C	DIN 53 516	mm³		mm³	
Compression set	*	ISO 815	%	≤6	%	≤6
Compression set	**	ISO 815	%	≤9	%	≤9
Compression set	***	ISO 815	%		%	
Minimum service temperature			°C	-50	°F	-58
Maximum service temperature			°C	110	°F	230
*24h 70°C 25% deflection	**24h 100°C 25% deflection			***24h 150°C 25% deflection		

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party, and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.