Material data sheet

NBR - black

Nitrile Butadiene Rubber

Resistant to: oil, petrol, hot water, hot air, ozone, crude oil

Properties	Condition	Standard	Unit			
Colour				black		
Hardness	23°C	ISO 868	Shore A	85+/-5	Shore A	85+/-5
Modulus 100%	23°C	DIN 53 504	MPa	11	Psi	1595
Tensile strength	23°C	DIN 53 504	MPa	17	Psi	2465
Elongation at break	23°C	DIN 53 504	%	150	%	150
Tear strength	23°C	DIN ISO 34-1	kN/m	18	Lbf/inch	102
Spec. Gravity	23°C	ISO 1183	kg/m³	1280	g/cm³	1,28
Rebound elasticity	23°C	DIN 53 512	%	20	%	20
Abrasion	23°C	DIN 53 516	mm³	100	mm³	100
Compression set	*	ISO 815	%	5	%	5
Compression set	**	ISO 815	%	6	%	6
Compression set	***	ISO 815	%		%	
Minimum service temperature			°C	-30	°F	-22
Maximum service temperature			°C	110	°F	230
Temp maximum water steam			°C		°F	
Temp maximum hot air			°C		°F	
*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.

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