

DATASHEET

DATASHEET		Date: 11.11.2022
		Version: 1.0
CH No.	<u>MDS CH334075</u>	
Basic elastomer	Nitrile Rubber (NBR)	
Colour	Blue	
Temperature range	From -35°C to +100°C	
Approvals	FDA 21.177.2600 • ADI	

TYPICAL PROPERTIES				
Properties	Unit	Required	Value	Testing methods
Hardness	Shore A	80 ±5	79	ASTM D2240
Tensile strength	MPa	-	9.4	ASTM D412C
Maximum elongation	%	-	394	ASTM D412C
Specific gravity	g/cm ³	-	1.59	ASTM 1817
Tear Strength	N/mm	-	44.8	ASTM D624B
Compression set in air 22 hours at 100°C	%	-	12.6	ASTM D395B

AGEING IN AIR - 70 HOURS AT 100°C				
Test:	Unit	Required	Value	Testing methods
Traction	%	-	-4	-
Maximum Elongation	%	-	-24	-
Hardness	Shore A	-	+3	-
Volume	%	-	-1.2	-

AGEING ASTM 1 - 70 HOURS AT 100°C				
Test:	Unit	Required	Value	Testing methods
Traction	%	-	-2	-
Maximum Elongation	%	-	-15	-
Hardness	Shore A	-	+1	-
Volume	%	-	-0.7	-

AGEING ASTM 3 - 70 HOURS AT 100°C				
Test:	Unit	Required	Value	Testing methods
Traction	%	-	-1	-
Maximum Elongation	%	-	-6	-
Hardness	Shore A	-	-9	-
Volume	%	-	+9.6	-

AGEING IN WATER - 70 HOURS AT 100°C				
Test:	Unit	Required	Value	Testing methods
Traction	%	-	-3	-
Maximum Elongation	%	-	-7	-
Hardness	Shore A	-	+5	-
Volume	%	-	+0.4	-

AGEING FUEL A - 70 HOURS AT 23°C

Test:	Unit	Required	Value	Testing methods
Traction	%	-	-12	-
Maximum Elongation	%	-	-7	-
Harness	Shore A	-	-2	-
Volume	%	-	+2.4	-

AGEING FUEL B - 70 HOURS AT 23°C

Test:	Unit	Required	Value	Testing methods
Traction	%	-	-33	-
Maximum Elongation	%	-	-30	-
Harness	Shore A	-	-17	-
Volume	%	-	+25	-

General:

NBR rubber is above all effective against oils, especially hydraulic oils, lubricants, petrol and other aliphatic hydrocarbons, diluted acids and alkalis.

Good physical characteristics such as abrasion resistance and collapse resistance and a wide temperature range guarantee

Wide application for this type of rubber

Please Note:

The mentioned values are average values and result from a limited number of laboratory tests. These tests were performed on standard test specimens and may therefore vary significantly from the values that were determined by means of tests performed on finished parts. On the basis of his own tests, the purchaser must ensure that the product is suitable for the intended application purpose. Our recommendations are provided according to the best of our knowledge. However, they are not binding and exclude any form of liability for any kind of damage.