

DATASHEET

DATASHEET		Date: 09-11-2022
		Version: 1.0
CH No.	CHNBR001	
Basic elastomer	NBR - Nitrile Butadiene Rubber SH80	
Colour	Black	
Temperature	-40°C to +100°C	
Approvals	EU 1935/2004 • FDA CFR21§177.2600 • USP Class VI • 3-A Class II	

TYPICAL PROPERTIES

Properties	Unit	Required value	Tested value	Testing methods
Hardness	Shore A	-	83	ASTM D 2240
Modulus 100%	MPa	-	9.29	ASTM D 412
Specific gravity	g/cm ³	-	1.29	ASTM D 297

HEAT RESISTENCE - 70 HOURS AT 100°C

Properties	Unit	Required value	Tested value	Testing methods
Change in Hardness	Shore A	-	5	ASTM D 573
Change in Volume	%	-	-3	ASTM D 573

COMPRESSION SET, Method B

Properties	Unit	Required value	Tested value	Testing methods
22 hours at 100°C	%	-	9	ASTM D 395

OIL RESISTANCE, ASTM OIL NO1 - 70 HOURS AT 100°C

Properties	Unit	Required value	Tested value	Testing methods
Change in Hardness	Shore A	-	5	ASTM D 471
Change in Volume	%	-	-8	ASTM D 471

OIL RESISTANCE, ASTM OIL IRM 903 - 70 HOURS AT 100°C

Properties	Unit	Required value	Tested value	Testing methods
Change in Hardness	Shore A	-	-1	ASTM D 471
Change in Volume	%	-	3	ASTM D 471

OIL RESISTANCE, REFERENCE FUEL A - 70 HOURS AT 23°C

Properties	Unit	Required value	Tested value	Testing methods
Change in Hardness	Shore A	-	-2	ASTM D 471
Change in Volume	%	-	2	ASTM D 471

OIL RESISTANCE, REFERENCE FUEL AB - 70 HOURS AT 23°C

Properties	Unit	Required value	Tested value	Testing methods
Change in Hardness	Shore A	-	-16	ASTM D 471
Change in Volume	%	-	20	ASTM D 471

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.