

DATASHEET

DATASHEET		Date: 05-09-2019 Version: 1.0
CH No.	CH8506K	
Basic elastomere	NBR	
Colour	Black	
Temperature range	-25°C to +100°C	

TYPICAL PROPERTIES				
Properties	Unit	Specification	Result	Testing methods
Hardness	Shore A	85 ±5	82	ASTM D2000
Tensile strength	MPa	14	14.5	ASTM D2000
Elongation	%	125	244	ASTM D2000
Specific Gravity	-	-	1.301	ASTM D2000

A14 – Heat Resistance: 100°C at 70 hours				
Properties	Unit	Specification	Result	Testing methods
Hardness Change	Point	±15	+1.2	ASTM D573
Tensile Strength Change	%	-20	+7	ASTM D573
Elongation Change	%	-40	-5	ASTM D573
Volume Change	%	-	-0.4	ASTM D573

Z2 – Heat Resistance: 100°C at 168 hours				
Properties	Unit	Specification	Result	Testing methods
Hardness Change	Point	-1 to +7	+2.6	ASTM D573
Tensile Strength Change	%	-	+12	ASTM D573
Elongation Change	%	-30	-21	ASTM D573
Volume Change	%	-	-1.7	ASTM D573

B14 – Compression Set: 100°C at 22 hours				
Properties	Unit	Specification	Result	Testing methods
Compression Set	%	25		ASTM D395 Method B

EO14 - ASTM #1 Oil: 100°C at 70 hours				
Properties	Unit	Specification	Result	Testing methods
Hardness Change	Point	-5 ~ +10	+6.1	ASTM D471
Tensile Strength Change, max	%	-25	+16	ASTM D471
Elongation Change, max	%	-45	-15	ASTM D471
Volume Change	%	-10 ~ +5	-6.1	ASTM D471

EO34 - ASTM #3 Oil: 100°C at 70 hours				
Properties	Unit	Specification	Result	Testing methods
Hardness Change	Point	0 to -20	-0.5	ASTM D471
Tensile Strength Change, max	%	-45	+12	ASTM D471
Elongation Change, max	%	-45	-10	ASTM D471
Volume Change	%	0 to +35	+2.4	ASTM D471

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.

Note:

This information is, to the best of our knowledge, accurate reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.