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Marco Compound # B1063 95 Durometer, Black, Commercial Grade Buna-N Technical Datasheet

Common Names:

NBR (acrylonitrile butadiene rubber), Buna-N, Nitrile.

General Description:

Most commonly used general purpose o-ring material because of relative low cost, good mechanical properties, and basic resistance to many common lubricants. Specific physical and chemical resistances vary by compound formulation. B1063 is formulated to provide value with balance cost and performance. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:

- Relative low cost.
- Good/Excellent resistance to compression set and tear/abrasion.
- Good/Excellent resistance to many petroleum oils/greases, hydraulic fluids, alcohol, ambient water, silicone greases, Di-ester base lubricants and ethylene-glycol based fluids.

Limitations:

• Ozone, direct sunlight, UV, weathering, aromatic fuels, glycol-based brake fluids, polar solvents, nonflammable hydraulic fluids (HFD), aromatic/chlorinated hydrocarbons, ketones, esters, and aldehydes, 15 year shelf life.

Cure System:

Sulfur

(Peroxide cured CPDs available with improved physical, chemical, and thermal properties).

Service Temperature:

-30 to 250° F (Additional CPDs available with -65° F and +275° F service temps).

Specification:

ASTM D2000 M6BG910 A14 B14 EO14 EO34

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000	Typical Test
	Requirements	Results
Hardness, Shore A	95 +/- 5	92
Color	Black	Black
Tensile Strength, MPa (psi)	10 (1440) min.	13.4 (1,930)
Ultimate Elongation, %	100 min.	148
Specific Gravity		1.55

Information within is believed to be accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate prior to use.

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HEAT RESISTANCE – A14, ASTM D 573 (70 hrs. @ 100°C)	ASTM D2000	Typical Test
	Requirements	Results
Hardness Change, points	+/- 15	+2
Tensile Strength Change, %	+/- 30	+13
Ultimate Elongation Change, %	-50 max.	-13

COMPRESSION SET – B14, ASTM D 325 Method B (22 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set %	25 max.	22

FLUID RESISTANCE -ASTM #1 OII - EO14, ASTM D 471 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	-5 to +15	-1
Tensile Strength Change, %	-25 max.	+7
Ultimate Elongation Change, %	-45 max.	-14
Volume Change, %	-10 to +5	-0

FLUID RESISTANCE – IRM 903 OII, -EO34, ASTM D 471 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	0 to -20	-10
Tensile Strength Change, %	-45 max.	+14
Ultimate Elongation Change, %	-45 max.	+11
Volume Change, %	-10 to +5	+18

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