Request a Quote

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Marco Compound # B1100
70 Durometer, Black, UL Approved 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. B1100 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:
- UL 157 Part B
- 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, non-flammable hydraulic fluids (HFD), aromatic/chlorinated hydrocarbons, ketones, esters, and aldehydes.

Cure System:
Sulfur
(Peroxide cured CPDs available with improved physical, chemical, and thermal properties).

Service Temperature:
-30 to 250° F

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	Typical Test Results
Hardness, Shore A (ASTM D2240)	71
Tensile Strength, psi, (ASTM D412 C)	2,150
Ultimate Elongation, % (ASTM D412 C)	300
Modulus @ 100% Elongation, psi (ASTM D412 C)	590
Specific Gravity (ASTM D792)	1.25
Tear Strength (ASTM D624 B)	48 N/mm
Compression set - 70 hrs @ 100°C	11.5%
Brittle Point (ASTM D2137)	-28°C

HEAT AGED: ASTM D471 - 168 hrs. @ 113°C)	Typical Test Results
Tensile Strength Change, %	+5
Ultimate Elongation Change, %	-33
Hardness Change, points, Shore A	+8