B1030 MATERIAL SUMMARY

70 Durometer, Black, Extended Temperature Buna-N

Request a Quote

Designed to be an extended temperature range material, Marco Compound #B1030 is formulated to provide value by balancing cost and performance. Specific physical and chemical resistances vary by compound formulation. Please contact sales@marcorubber.com for assistance in selecting a specialized compound.

ABOUT #B1030

Marco Compound B1030 is the most commonly used extended temperature range NBR 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.

FEATURES

- Extended low & high temperature range.
- 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.

APPLICATION EXAMPLES

- Automotive applications
- Pneumatic applications
- Hydraulic Application

ADDITIONAL INFORMATION

- Service Temperature of -45° to 275°F
- Spec: ASTM 2000 M2CH710 A25 B14 E015 E035 F19

B1030 MATERIAL SUMMARY

70 Durometer, Black, Extended Temperature Buna-N

Request a Quote

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	74
Color	Black	Black
Tensile Strength, MPa (psi)	10 (1,450) min.	12.5 (1,812)
Ultimate Elongation, %	200 min.	207
HEAT RESISTANCE – A25, ASTM D 573 (70 hrs. @ 125°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	0 to + 15	12
Tensile Strength Change, %	-25	13
Ultimate Elongation Change, %	-50 max.	-38
COMPRESSION SET – B14, ASTM D 325 Method B (22 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set %	25 max.	15
FLUID RESISTANCE, ASTM NO. 1 OIL – E015, ASTM D 471 (70 hrs. @ 125°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	0 to +10	10
Tensile Strength Change, %	-20 max.	10
Ultimate Elongation Change, %	-35 max.	-23
Volume Change, %	-15 to +5	-11
FLUID RESISTANCE – IRM 903 Oil, -E035, ASTM D 471 (70 hrs. @ 125°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	+/-10	-5
Tensile Strength Change, %	-15 max.	+1
Ultimate Elongation Change, %	-30 max.	-20
Volume Change, %	0 to +25	8
LOW TEMPERATURE RESISTANCE – F19, ASTM D 2137	ASTM D2000 Requirements	Typical Test Results
Non-brittle after 3 min. @ -55°C (-67°F)	Pass	Pass