

## Material Test Report

**Compound N90-E101**

**Nitrile (Buna), Cord, Black, General Purpose**

### Material Summary

Material Type:	NBR
Durometer:	90
Color:	Black
Special Properties:	General Purpose
Recommended Temperature Range (Static):	-40°C (-40°F) to 100°C (212°F)
Cure System:	Sulfur
Meets Specification:	ASTM D2000 M3BG910 B14 EO14 EO34

Original Properties	Requirements	Typical Results
Durometer Hardness, pts, ASTM D2240	90±5	89
Tensile Strength, psi, ASTM D412	1450	2040
Ultimate Elongation, %, ASTM D412	100	125
Compression Set, B14 (22 hrs @ 100°C)	Requirements	Typical Results
% Compression Set, ASTM D395	25 Max	20.9
Oil Resistance, E014 (70 hrs @ 100°C, Oil No. 1)	Requirements	Typical Results
Hardness Change, pts, ASTM D471	-5 to +10	+4
Tensile Change, %, ASTM D471	-25 Max	-1.9
Elongation Change, %, ASTM D471	-45 Max	-10
Volume Change, %, ASTM D471	-10 to +5	-1.1
Oil Resistance, E034 (70 hrs @ 100°C, Oil No. 3)	Requirements	Typical Results
Hardness Change, pts, ASTM D471	-10 to +5	-9
Tensile Change, %, ASTM D471	-45 Max	-13.3
Elongation Change, %, ASTM D471	-45 Max	-10
Volume Change, %, ASTM D471	0 to +25	+16.1

Compound Previously Known As: N90CD

Report Date: 6/26/2024

Information within this report is believed to be accurate and reliable. However, Global O-Ring and Seal 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.