

## Material Test Report

**Compound N70-E501**

**Nitrile (Buna), Cord, White, FDA**

### Material Summary

Material Type:	NBR
Durometer:	70
Color:	White
Special Properties:	FDA Compliant
Recommended Temperature Range (Static):	-40°C (-40°F) to 100°C (212°F)
Cure System:	-
Meets Specification:	ASTM D2000 M5BG705 A14 B14 F17 Z1

Original Properties	Requirements	Typical Results
Durometer Hardness, pts, ASTM D2240	70±5	68
Tensile Strength, psi, ASTM D412	870	932
Ultimate Elongation, %, ASTM D412	150	305
Heat Resistance, A14 (70 hrs @ 100°C)	Requirements	Typical Results
Hardness Change, pts, ASTM D573	+15 Max	+8
Tensile Change, %, ASTM D573	-20 Max	+14
Elongation Change, %, ASTM D573	-40 Max	-27
Compression Set, B14 (22 hrs @ 100°C)	Requirements	Typical Results
% Compression Set, ASTM D395 Method B	25 Max	17.7
Low Temperature, F17 (3 min @ -25°C)	Requirements	Typical Results
Brittle Point, ASTM D2137	Non-Brittle	Pass
Oil Resistance, Z1 (70 hrs @ 100°C, ASTM Oil No. 3)	Requirements	Typical Results
Volume Change, %, ASTM D471	+35 Max	+19.4

Compound Previously Known As: WN70CD

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.