

## Material Datasheet

**Compound #: N70126**

**Nitrile (Buna), UL 157 Approved**

### Material Summary

Material Type:	Nitrile (Buna)
Durometer:	70
Color:	Black
Special Properties:	UL 157 Approved
Recommended Temperature Range (Static):	-40°C to 100°C
Cure System:	Sulfur
Specification:	ASTM D2000 M2BG708 A14 B14 B34 EA14 EF11 EF21 Z1 Z2

Original Properties	Requirements	Typical Results
Hardness,(shore A) (ASTM D2240-15 <sup>e1</sup> )	70±5	72
Tensile Strength,psi(MPa) (ASTM D412-16)	1160(8)(min)	1624(11.20)
Elongation,(%) (ASTM D412-16)	200(min)	298
Modulus at 100%,psi(MPa) (ASTM D412-16)		742(5.12)
Density,(Mg/m <sup>3</sup> ) (CNS 5341-96,Method A)		1.35
<b>A14 Heat age, 70 Hrs @ 100 °C (ASTM D573-04)</b>		
Hardness Change, pts, Shore A	±15	+5
Tensile Strength Change, %	±30	+12
Elongation Change, %	-50(max)	-15
Weight Change, %		-0.6
<b>B14 Compression set, 22 Hrs @ 100 °C (ASTM D395-18,Method B)</b>		
-	25%(button)(max)	10.0
<b>EA14 Water Resistance, 70 Hrs @ 100 °C (ASTM D471-16a)</b>		
Hardness Change, pts, Shore A	±10	-2
Tensile Strength Change, %		+13
Elongation Change, %		-7
Volume Change, %	±15	+3.5
<b>EF11 ASTM Fuel A Resistance, 70 Hrs @ 23 °C (ASTM D471-16a)</b>		
Hardness Change, pts, Shore A	±10	+1
Tensile Strength Change, %	-25(max)	0
Elongation Change, %	-25(max)	+6
Volume Change, %	-5~+10	-1.2

## Material Datasheet

**Compound #: N70126**

**Nitrile (Buna), UL 157 Approved**

### EF21 ASTM Fuel B Resistance, 70 Hrs @ 23 °C (ASTM D471-16a)

Hardness Change, pts, Shore A	-30~0	-12
Tensile Strength Change, %	-60(max)	-15
Elongation Change, %	-60(max)	-16
Volume Change, %	0~+40	+12.4

### Z1 Low Temperature Retraction Test (TR Test), (ASTM D1329-16)

Testing Elongation 50%,		
The Equipment of measure temperature: thermocouple,		
Length of Sample: 51 mm,		
Rate of Temperature increasing: 1°C/min,		
Test Temperature: 26 °C,		
Coolant : Methanol,		
TR10, °C,		-27.1

\*American Society for Testing and Materials

Report Date: 2/19/2020

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.