

Material Test Report

Compound N70-D101

Nitrile (Buna), Cord, Black, General Purpose

Material Summary		
Material Type:	NBR	
Durometer:	70	
Color:	Black	
Special Properties:	General Purpose	
Recommended Temperature Range (Static):	-40°C (-40°F) to 100°C (212°F)	
Cure System:	-	
Meets Specification:	ASTM D2000 M5BG710 A14 B14 C12 EA14 EO14 EO34 F17	
Original Properties	Requirements	Typical Results
Tensile Strength, ASTM D412-16	1450 PSI MIN	1450 PSI
Elongation, ASTM D412-16	250% MIN	353%
Hardness, Shore A, ASTM D2240-15	70 ±5 PT	68 PT
HEAT AGE, A14 (70 hrs. @ 100°C)	Requirements	Typical Results
Tensile Strength Change, ASTM D573-04	-20% MAX	-3%
Elongation Change, ASTM D573-04	-40% MAX	-36%
Hardness Change, ASTM D573-04	+/-15 PT	12 PT
COMPRESSION SET, B14 (22 hrs. @ 100°C)	Requirements	Typical Results
Thickness Change (C/S), ASTM D395-18	25% MAX	12.0%
OIL RESISTANCE, EO14 (70 hrs. @ 100°C)	Requirements	Typical Results
Tensile Strength Change, ASTM D471-16a	-25% MAX	4%
Elongation Change, ASTM D471-16a	-45% MAX	-32%
Hardness Change, ASTM D471-16a	-5/15 PT	14 PT
Volume Change, ASTM D471-16a	-10/5	-8.1%
OIL RESISTANCE, EO34 (70 hrs. @ 100°C)	Requirements	Typical Results
Tensile Strength Change, ASTM D471-16a	-45% MAX	-11%
Elongation Change, ASTM D471-16a	-45% MAX	-32%
Hardness Change, ASTM D471-16a	+15/0 PT	-12 PT
Volume Change, ASTM D471-16a	0/35	23.9%
WATER IMMERSION, EA14 (70 hrs. @ 100°C)	Requirements	Typical Results
Hardness Change, ASTM D471-16a	-	-8 PT
Volume Change, ASTM D471-16a	-	18.7%
OZONE RESISTANCE, ASTM D1171-15	Requirements	Typical Results
Ozone Rating, ASTM D1171-15	RATING 0	0



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LOW TEMPERATURE BRITTLINESS, F17	Requirements	Typical Results
Brittleness, ASTM D2137-11, 3 min @ -40°C	Non-Brittle	PASS

Compound Previously Known As: N70CD

Report Date: 10/31/2019

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.