

**Nbr 70 material**

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For assistance in identifying the appropriate polymer or material, or to develop and formulate a NBR or nitrile / buna n rubber compound to meet your specific application and performance requirements, please contact Rahco Rubber, Inc. at sales@rahco-rubber.com or 847-298-4200. Rahco Rubber, Inc. makes no expressed or implied warranty as to any qualities, attributes, or characteristics of any polymer or material. This information is provided for reference only. Welcome to our Nitrile Specifications Section Here you will find our Nitrile Specifications chart which can also be downloaded in PDF. The Nitrile rubber properties that are listed below are for our most popular Nitrile 70 durometer (70A) rubber material compound. Make sure you review all of our other popular materials to make sure that the material you choose is correct for your application. If you need properties that are slightly different than the ones listed below, we can compound the formulation of the rubber material so that the Nitrile rubber specifications suit your needs. Finding the correct material especially if you are using it for an O-ring seal is important as the seal can degrade easily if the material is not compatible. Nitrile is the most commonly used rubber material. This is due to Nitrile's compatibility with most environments as well as it's relative cost compared to other rubber materials. Mykin's RN00170, Nitrile (BUNA-N) 70 durometer, is a general purpose copolymer of butadiene and acrylonitrile. This compound has a relatively high acrylo content, making it exceptionally resistant to petroleum base oils and hydrocarbon fuels over a temperature range of -40°F to +250°F. Nitrile has good mechanical properties when compared with other elastomers and high wear resistance. Unless they are specially compounded, Nitrile is not resistant to weathering, sunlight and ozone. Download Nitrile 70 Information in PDF ASTM Designation ORIGINAL PROPERTIES ASTM D2000 SPECIFICATION Durometer, Shore A 70 +/-5 Tensile, psi (MPa), Minimum 2031 (14) Elongation, % Minimum 250 Specific Gravity - HEAT AGE, 70 HRS @ 100 C Durometer Change, Points +/- 15 Tensile Strength Change, % Maximum +/- 30 Elongation Change, % Maximum -50 B14 COMPRESSION SET, 22 HRS @ 100 C Original Deflection, % Maximum 25 (Button) EA14 WATER RESISTANCE, 70 HRS @ 100C Durometer Change, Points +/-10 Volume Change, % +/-15 EF11 FUEL A RESISTANCE, 70 HRS @ 23C Durometer Change, Points +/-10 Tensile Change, % Maximum -25 Elongation Change, % Maximum -25 Volume Change, % -5/+10 EF21 FUEL B RESISTANCE, 70 HRS @ 23C Durometer Change, Points 0/-30 Tensile Change, % Maximum -60 Elongation Change, % Maximum -60 Volume Change, % Maximum 0/+40 EO14 ASTM #1 OIL, 70 HRS @ 100C Durometer Change, Points -5/+10 Tensile Change, % Maximum -25 Elongation Change, % Maximum -45 Volume Change, % -10/+5 EO34 ASTM #3 OIL, 70 HRS @ 100C Durometer Change, Points -10/+5 Tensile Change, % Maximum -45 Elongation Change, % Maximum -45 Volume Change, % Maximum 0/+25 F17 LOW TEMPERATURE BRITTLENESS ASTM D2137 Method A, 9.3.2 Pass 3 Minutes @ -40 C Non-Brittle SPECIFICATIONS MET ASTM D2000-99 Grade M2BG714 B14 EA14 EF11 EF21 EO14 EO34 F17 VIEW E0.0114 - E0.0664 VIEW E0.0136 - E0.2081 VIEW E0.0472 - E3.5807 VIEW E0.3636 - E7.1324 VIEW E0.0145 - E0.3486 VIEW E0.0121 - E0.9713 VIEW E0.0262 - E3.3155 VIEW E0.0931 - E6.2576 VIEW E1.1689 - E8.6062 We have all NBR O-rings available The origin of NBR: Nitrile-butadiene rubber (NBR) was developed by the chemical company 'I.G. Farbenindustrie' from Germany between WWI and WWII. At first, the material was called Buna-N® and was later renamed to Perbunan®. The material first came to market in the 30s and is nowadays the most used elastomer for standard seals like Orings and other seals. What is an O-ring NBR? An O ring from NBR is an elastomer, which is a synthetic polymer obtained by the copolymerization of acrylonitrile and 1,3-butadiene. The characteristics are partly determined by the amount of acrylonitrile in the material and this varies from 18% to 50%. As the acrylonitrile increases, resistance to petroleum base oils and hydrocarbon fuels increases, but low-temperature flexibility decreases and the rubber can become brittle. What is NBR used for? Seals O-rings Gaskets Pipe and Cable Covers The advantages of NBR O-rings: Resistant against oils, fats, hydrocarbons, diluted acids Has good mechanical qualities and is wear-resistant Good resistance to heat It is powerful and elastic It has a working temperature range of -40 °C tot + 130 °C (-30 °F tot + 250 °F) The disadvantages of O-rings NBR: It has limited resistance to weather and ozone conditions Not well resistant to aromatic compounds, halogenated hydrocarbons, ketone brake fluids, and strong acids Must be kept out of direct sunlight The working temperature range is limited in comparison to other materials find O-rings with other materials here. o-rings, o ring, o-ring, oring, nbr o-ring TECHNICAL DATASHEET NBR (NITRILE) â€ Black 70 Shore Hardness Cure system : SULPHUR Temperature Range : -30°C to +100°C Shelf Life : 15 Years Specification Met : ASTM D2000 M2BG714 A14 B14 EA14 EF11 EF21 EO14 EO34 F17 NBR 70 Datasheet - Download PARAMETERS REQUIREMENTASTM D2000 ISG TEST VALUE Hardness, Shore A (ASTM D 2240) 70 Â± 5 70 Tensile Strength, Mpa (ASTM D412) Min 14.0 14.4 Elongation At Break, % (ASTM D 412) Min 250 325 Specific Gravity, g/cm3 (ASTM D 297) -- 1.27 RESISTANCE TO HEAT -- ASTM D 573 (70 Hrs At 100°C) â€ A14 REQUIREMENTASTM D2000 ISG TEST VALUE Hardness Change, Points Â± 15 +3 Tensile Strength Change % Â± 30 +10 Elongation Change % Max -50 -28 COMPRESSION SET -- ASTM D395 â€ B14 REQUIREMENTASTM D2000 ISG TEST VALUE Compression Set % 22hrs @ 100°C Max 25 12% RESISTANCE TO WATER -- ASTM D 471 (70 Hrs At 100°C) â€ EA14 REQUIREMENTASTM D2000 ISG TEST VALUE Hardness Change, Points Â± 10 +5 Volume Change % Â± 15 +10 RESISTANCE TO HEAT -- ASTM D 471 (70 Hrs At 23°C) â€ EA14 REQUIREMENTASTM D2000 ISG TEST VALUE Hardness Change, Points Â± 10 -4 Tensile Strength Change % Max -25 -15 Elongation Change % Max -25 -20 Volume Change % -5 To 10 +5 RESISTANCE TO HEAT -- ASTM D 471 (70 Hrs At 23°C) â€ EF21 REQUIREMENTASTM D2000 ISG TEST VALUE Hardness Change, Points -30 To 0 -15 Tensile Strength Change % Max -60 -39 Elongation Change % Max -60 -33 Volume Change % 0 to +40 +23 RESISTANCE TO HEAT -- ASTM D 471 (70 Hrs At 100°C) â€ EO14 REQUIREMENTASTM D2000 ISG TEST VALUE Hardness Change, Points -5 to +10 +7 Tensile Strength Change % Max -25 +7 Elongation Change % Max -45 +25 Volume Change % -10 To +25 +6 LOW TEMP RESISTANCE -- ASTM D 2137 â€ F17 REQUIREMENTASTM D2000 ISG TEST VALUE Non-Brittle After 3Min @ -40°C -- Pass Ref Date: 01st April 2020 SKU Size Material Color Duro CS ID Price Stock N70001 001 Nitrile Black 70 .040 .029 88 In Stock85,000 Inbound 88 In Stock85,000 Inbound N70002 002 Nitrile Black 70 .050 .042 45 In Stock100,000 Inbound 45 In Stock100,000 Inbound N70003 003 Nitrile Black 70 .060 .056 9,043 In Stock58,800 Inbound 9,043 In Stock58,800 Inbound N70004 004 Nitrile Black 70 .070 .070 844,745 In Stock14,010,300 Inbound 844,745 In Stock14,010,300 Inbound N70005 005 Nitrile Black 70 .070 .101 68,327 In Stock100,000 Inbound 68,327 In Stock100,000 Inbound N70006 006 Nitrile Black 70 .070 .114 153,470 In Stock839,200 Inbound216 Overseas 153,470 In Stock839,200 Inbound216 Overseas N70007 007 Nitrile Black 70 .070 .145 146,337 In Stock100,000 Inbound 146,337 In Stock100,000 Inbound N70008 008 Nitrile Black 70 .070 .176 54,330 In Stock342,149 Inbound 54,330 In Stock342,149 Inbound N70009 009 Nitrile Black 70 .070 .208 1,546,166 In Stock Need More? 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