



# RS PRO NBR cord, 70 ShA

Nitrile / NBR / Buna-N

Nitrile is the most cost effective and commonly available cord material widely used for applications involving resistance to petroleum oils minerals and vegetable oils. It is also suitable for contact with aromatic hydrocarbons and most dilute alkalis and acids. RS Components NBR rubber cord also has good mechanical properties, low compression set and is most cost effective. For applications requiring contact with diesel or temperatures higher than 120°C you may wish to consider RS Components FKM Cord.

*Colour: Black*

*Operating temperature range: -20°C to 80°C*



| Physical Property  | Test Method        | Units             | Typical Values |
|--|--------------------|-------------------|----------------|
| Hardness   | ASTM D 1415        | ShA               | 71             |
| Tensile Strength   | ASTM D 412         | MPa               | 14.1           |
| Elongation   | ASTM D 412         | %                 | 330            |
| Specific Gravity   | ASTM D 297         | g/cm <sup>3</sup> | 1.28 ± 0.03    |
| Compression Set 22h / 200°C                                    | ASTM D 395 B       | %                 | 11             |
| Low Temperature Resistance / Non-brittle after 3 mins at -40°C | ASTM D 2137 - TR10 | °C                | Pass           |

| Aging Property | Test Method | Time (h) | Temperature (°C) | Hardness (ShA) | Tensile Strength (%) | Ultimate Elongation (%) | Volume (%) |
|----------------|-------------|----------|------------------|----------------|----------------------|-------------------------|------------|
| Air            | ASTM D 573  | 70       | 100              | 3              | 1                    | 7                       |            |
| ASTM Oil 901   | ASTM D 471  | 70       | 100              | 4              | -5                   | -4                      | -5         |
| ASTM Oil 903   | ASTM D 471  | 70       | 100              | -3             | -12                  | -11                     | 8          |
| Fuel A         | ASTM D 471  | 70       | 23               | -2             | -13                  | -6                      | 2          |
| Fuel B         | ASTM D 471  | 70       | 23               | -11            | -31                  | -21                     | 21         |

### Chemical resistance

- Many hydrocarbons
- Fats
- Oils & Gasoline
- Petroleum based hydraulic fluid (HFD-R)

### Not compatible with:

- Ozone
- Esters
- Ketones
- Aldehydes
- Chlorinated
- Nitro Hydrocarbons

| MPN     | Description                      | Length (m) | Diameter (mm) | Tolerance (mm) |
|---------|----------------------------------|------------|---------------|----------------|
| 2342002 | NBR cord, 1.0 mm diameter 70 ShA | 10         | 1.00          | ±0.4           |
| 2341990 | NBR cord, 1.5 mm diameter 70 ShA | 10         | 1.50          | ±0.5           |
| 2341991 | NBR cord, 2.5 mm diameter 70 ShA | 10         | 2.50          | ±0.7           |
| 2341992 | NBR cord, 9.0 mm diameter 70 ShA | 5          | 9.00          | ±1             |
| 2341994 | NBR cord, 9.5 mm diameter 70 ShA | 5          | 9.50          | ±1             |
| 2341995 | NBR cord, 10 mm diameter 70 ShA  | 2          | 10            | ±1.3           |
| 2341996 | NBR cord, 11 mm diameter 70 ShA  | 2          | 11            | ±1.3           |
| 2341997 | NBR cord, 12 mm diameter 70 ShA  | 2          | 12            | ±1.3           |
| 2342000 | NBR cord, 14 mm diameter 70 ShA  | 2          | 14            | ±1.3           |
| 2341998 | NBR cord, 16 mm diameter 70 ShA  | 2          | 16            | ±1.6           |
| 2341999 | NBR cord, 20 mm diameter 70 ShA  | 1          | 20            | ±1.6           |
| 2342004 | NBR cord, 25 mm diameter 70 ShA  | 1          | 25            | ±2             |
| 2342001 | NBR cord, 30 mm diameter 70 ShA  | 1          | 30            | ±2             |