

Nitrile 70-compound 366470 black - Technical Data Sheet

1. Introduction

NBR 70-compound 366470 is an FDA Nitrile compound with medium percentage of Acrylonitrile. In conformity with FDA 21 CFR 177.2600 and 3A 18-03.

2. Product Description

Chemical Composition :	Acrylonitrile / Butadiene Rubber
Physical form :	O-Rings / Mouldings
Colour :	Black
Odour :	None
Storage stability * :	± 7 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Density	ISO 2781	1,21
Hardness	ISO 48 Method M	70 ± 5 IRHD
Tensile Strength at break	ISO 37	16,3 MPa
Elongation at break	ISO 37	381%
Compression Set	ISO 815	
25% compression - 22h/70°C on slab		20,6%
Heat Ageing 7 days/70°C	ISO 188	
Hardness Change	ISO 37	72 pt
Tensile Strength	ISO 37	16,5 MPa
Ultimate elongation	ISO 37	363%

4. Temperature Resistance

- -25° to +120°C
- TR10 (low temp. resistance): -16°C

5. Chemical Resistance

Alkali	: very good
Air	: excellent
Alcohol	: very good
Fats	: excellent
Mineral oils	: excellent
Silicone oils	: excellent
Vegetable oils	: excellent
Inorganic acids	: excellent
Ketones	: unsatisfactory
Ethers	: unsatisfactory
Organic acids	: fair
Inorganic acids	: excellent

6. Advantages

- Can be produced in small quantities
- Migration tested in compliance with FDA 177.2600 class 1 (certificate on demand)

7. Other Information

- Compound formulated to FDA 177.2600 for aqueous and fatty foods (class 1)
- Produced with high purity furnace black (less than 10%)
- This compound is ADI (Animal Derived Ingredient Free).

