HNBR 70-compound 886172 - Technical Data Sheet

1. Introduction

HNBR 70-compound 886172 FDA is a hydrogenated Nitrile compound with medium percentage of Acrylonitrile. Standard compound with good compression set values for contact with fatty foods. Compound is compliant to FDA 177.2600.

2. Product Description

Chemical Composition	:	Acrylonitrile / Butadiene Rubber
Physical form	:	O-Rings / Mouldings
Colour	:	Black
Odour	:	None
Storage stability *	:	± 10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Hardness	ISO 48 Method M	70° ± 5° IRHD
Tensile Strength at break	ISO 37	min 16 MPa
Elongation at break	ISO 37	min 250%
Compression Set 25% compression - 22h/150°C on O-Ring (3,53 mm)	ISO 815 ISO 815	 max 35%
Heat Ageing 70h/150°C Hardness Change Tensile Strength Change	ISO 188	 max +6° max -15%

4. Temperature Resistance

- -30° to +150°C
- TR10 (low temp. resistance): -20°C
- Short time up to 180°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
Ozone	:	excellent

6. Advantages

- Standard O-Ring compound HNBR-FDA
- Good balance price/lifetime
- Migration tested in compliance with FDA 177.2600 class 1 (certificate on request)

7. Other Information

- Higher temperature resistant than NBR.
- Good in steam up to 130°C.
- Can be produced in small quantities.
- This compound is ADI (Animal Derived Ingredient Free).