HNBR 70-compound 886972 white - Technical Data Sheet

1. Introduction

HNBR 70-compound 886972 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	:	White
Odour	:	None
Storage stability *	:	± 10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Unit*	*Norm*	*Test Values*
Density	g/cm³	ISO 2781	1,11
Hardness Shore A	Point	ISO 868	77
Tensile Strength	Mpa	ISO 37	17,21
Ultimate Elongation	%	ISO 37	297
Modulus 100%	Mpa	ISO 37	6,77
Modulus 200%	Mpa	ISO 37	17
Compression Set 70h/150°C	%	ISO 815	23
Compression Set 70h/23°C	%	ISO 815	11,2
Heat Ageing 168h/150°C		ISO 188	
Hardness Change Shore A	Point		+7
Tensile Strength Change	Mpa		+1,73
Ultimate Elongation Change	%		-18,64
Oil ASTM 3, 70h/100°C		ISO 1817	
Hardness Change Shore A	Point		-3
Volume Change	%		+9

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).

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