NBR 70-compound 366005 - Technical Data Sheet

1. Introduction

NBR 70-compound 366005 is a Nitrile compound , designed for the automotive industry and in conformity with VW 2.8.1-A70.

2. Product Description

Chemical Composition	:	Acrylonitrile / Butadiene Rubber
Physical form	:	O-Rings / Mouldings
Colour	:	Black
Storage stability *	:	± 7 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Hardness	ISO 868 SB	70° ± 5° IRHD
Specific Weight	ISO 2781	1,27
Tensile Strength at break	ISO 37	13 N/mm^2
Elongation at break	ISO 37	300%
Compression Set	ISO 815 A	
70h/23°C		20%
48h/70°C		14%
48h/110°C		20%
Heat Ageing 48h/110°C	ISO 188	
Hardness Change		+8%
Immersion in FAM DIN 51604 2/B	ISO 1817	
48h/23°C		
Hardness Change		-17%
Volume Change		+36%
Immersion in Diesel, 48h/23°C	ISO 1817	
Hardness Change		-1%
Volume Change		+2%
Immersion in Biodiesel DIN 51606	ISO 1817	
48h/23°C		
Hardness Change		-3%
Volume Change		+3%

4. Temperature Resistance

- -30° to +120°C
- TR10 (low temp. resistance): -15°C
- Cold resistance to DIN 53546: -31°C

Inorganic acids	:	very good
Organic acids	:	good
Ketones	:	unsatisfactory
Ethers	:	unsatisfactory

5. Chemical Resistance

Alkali	:	very good
Air	:	excellent
Alcohol	:	very good
Fats	:	excellent
Mineral oils	:	excellent
Silicone oils	:	excellent
Vegetable oils	:	excellent

6. Advantages

- Very low compression set
- In conformity with VW 2.8.1-A70 (up to 70°C)

7. Other Information

- Other colours available on request.