

## NBR 90 compound 366490 - Technical Data Sheet

### 1. Introduction

NBR 90-compound 366490 is a Nitrile compound with medium percentage of Acrylonitrile. In conformity with FDA 177.2600.

### 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  |
|---|-----------------|--------------|
| Hardness  | ISO 48 Method M | 90 ± 5 IRHD  |
| Tensile Strength at break                                 | ISO 37          | min 15,6 MPa |
| Elongation at break                                       | ISO 37          | min 136%     |
| Specific Weight   | ISO 2781        | 1,31         |
| Compression Set<br>25% compression - 22h/100°C<br>on slab | ISO 815         | max 25%      |
| Heat Ageing 70h/100°C<br>Hardness Change                  | ISO 188         | max +5°      |

### 4. Temperature Resistance

- -30° 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).

