

## HNBR 70 Compound 886270



ERIKS' 886270 is a specialist grade hydrogenated nitrile compound developed for food contact and dairy applications. The compound has a medium percentage of acrylonitrile and a good compression set as well as EC1935:2004 compliance.

### Description

**Chemical composition:** Hydrogenated NBR  
**Physical form:** O-rings, moulded parts  
**Colour:** Yellow  
**Temperature resistance:** -30°C to +150°C

### Compliances

- EC1935:2004
- ADI free
- REACH
- RoHS

### Application

- Food contact

### Additional information

- EC 10/2011 migration tested

Please consult our [Chemical Resistance Guide](#) for more information on this compound.



Table 1: Physical properties

| Property  | Test standard | Value | Unit    |
|---|---------------|-------|---------|
| Hardness  | ASTM D2240    | 74±5  | Shore A |
| Elongation at break                             | ASTM D412     | 303   | %       |
| Tensile strength                                | ASTM D412     | 21.6  | MPa     |
| 100% Modulus                                    | ASTM D412     | 5.9   | MPa     |
| <b>Compression set</b> – 24 hours at 150°C Slab | ASTM D395     | 25.1  | %       |

Table 2: Ageing properties

| Property  | Test standard | Value | Unit    |
|---|---------------|-------|---------|
| <b>Heat ageing</b> – 70 hours at 150°C              | ASTM D865     |       |         |
| Hardness change                                     |               | +7    | Shore A |
| Elongation at break change                          |               | -14   | %       |
| Tensile strength change                             |               | -10   | %       |
| <b>Immersion in ASTM oil #1</b> – 70 hours at 150°C | ASTM D471     |       |         |
| Hardness change                                     |               | +4    | Shore A |
| Elongation at break change                          |               | +5    | %       |
| Tensile strength change                             |               | -3    | %       |
| Volume change                                       |               | -1.9  | %       |
| <b>Immersion in ASTM oil #3</b> – 70 hours at 150°C | ASTM D471     |       |         |
| Hardness change                                     |               | -6    | Shore A |
| Elongation at break change                          |               | -7    | %       |
| Tensile strength change                             |               | -5    | %       |
| Volume change                                       |               | +14.1 | %       |