



**OZ NAPO
NATURAL POLY**

Design Description

OZ NAPO is universally applicable sealing material which can be characterized by its wide service temperature range. OZ NAPO is a food grade material which makes it great for pressure seals which are in contact with food.

The material has good values for tensile strength, elongation at break and tear strength. It also has a very low compression set. Its excellent wear resistance, high elasticity, high dynamic resistance as well as low permeability are other advantages.

Features

- Outstanding toughness & abrasion for high pressure applications
- Mineral oil compatibility is good
- Good resistance to ozone attack & weathering

| Properties | Standard | Unit | Value |
|------------------------------------|-----------|-------------------|-------------|
| Hardness | DIN 53505 | Shore A | 90 |
| Hardness | DIN 53505 | Shore D | 46 ± 2 |
| Density | DIN 53479 | g/cm ³ | 1.2 |
| Tensile strength | DIN 53504 | N/mm ² | 31 |
| Elongation at break | DIN 53504 | % | 400 |
| Stress ratio 100% | DIN 53504 | N/mm ² | 17 |
| Stress ratio 300% | DIN 53504 | N/mm ² | 38 |
| Compression set 20 °C/24h | DIN 53517 | % | 10 |
| Compression set 70 °C/70h | DIN 53517 | % | 20 |
| Tear strength | DIN 53515 | N/mm | 130 |
| Elastic recovery | DIN 53512 | % | 26 |
| Abrasion | DIN 53516 | Mg loss | 45 |
| Minimum application temperature | | °C | -50 |
| Maximum application temperature | | °C | 110 |
| Elongation at break after 2000h | | | 440 |
| Storage in distilled water at 95°C | | | 440 |
| Swell in water | | % | 0.3-0.4 max |