

PRODUCT

50% INOX

(50% virgin ptfе + 50% Stainless steel AISI 316 L)

| Property | Method | Units | Specification |
|---|------------|----------------------|---------------|
| Specific gravity | ASTM D4884 | g/ cm ³ | 3,360 – 3,410 |
| Tensile strength | ASTM D4894 | MPa | ≥ 15 |
| Elongation | ASTM D4894 | % | ≥ 150 |
| Hardness | ASTM D2240 | Shore D | ≥ 65 |
| Deformation under load (14N/mm ² , 24 h at 23°C.) | ASTM D621 | % | 6 - 7,5 |
| Permanent deformation (after 24 hrs. Relaxation at 23°C) | ASTM D621 | % | 2,5 – 3,5 |
| Coefficient of linear thermal expansion T= 25 - 100°C | ASTM D696 | 10 ⁻⁵ /°C | 10 – 11,5 |
| Coefficient of static friction | ASTM D1894 | | 0,16 – 0,18 |
| Coefficient of dynamic friction | ASTM D1894 | | 0,13 – 0,15 |
| Volume Resistivity | ASTM D257 | Ohm cm | - |
| Service Temperature | | C° | -200 / +260 |

Properties:

- Improved compression resistance (very low cold flow), low permeability.

Main applications:

- In dynamic applications where high compression and chemical resistance are required (seals and bearings for food industry machinery).

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