



**NAMO
NATURAL POLY**

Design Description

NAMO (Natural Poly) is a hydrolysis-resistant material for a temperature range from -50°C to 120°C . Especially suitable for piston/rod seals with soft elastomer energizers, slip rings or wipers using for strong dirt. NAMO is FDA approved which makes it ideal for food processing industries. In some cases, NAMO is a great alternative for PTFE.

Features

- Low compressions set
- Excellent hot water resistant
- Resistance in HFA, HFB hydraulic fluids and using biologically reducible hydraulic fluids
- FDA approved

Properties	Specified	Unit	Value
Hardness	DIN 53505	Shore D	80
Density	DIN 53479	g/cm^3	1.16
Tensile strength	DIN 53504	MPA	78
Elongation at break	DIN 53504	%	310
10% Modulus/psi	DIN 53504	MPA	15.3
100% Modulus/psi	DIN 53504	MPA	27.2
200% Modulus/psi	DIN 53504	MPA	35
300% Modulus/psi	DIN 53504	MPA	48.1
Compression set 70 °C/70h	DIN 53517	%	35
Tear strength/D470/pli	DIN 53515	N/mm	132
Tear strength: with nick	DIN 53515	N/mm	75
Resilience	DIN 53512	%	40
DIN abrasion resistance	DIN 53516	Mg loss	45
Specific gravity			54
Minimum application temperature		$^{\circ}\text{C}$	-50
Maximum application temperature		$^{\circ}\text{C}$	120
Elongation at break after 200h/Storage distilled at 95°C			310
Swell in water			0.3 - 0.4 m