



OZ PRO FLEX

Design Description

Oz Pro Flex is a polyurethane rubber. It has very good values for flexibility, tensile strength, elongation at break and tear strength. It also has a low compression set. Its excellent wear resistance, high elasticity, high dynamic resistance as well as low permeability are other advantages.

Oz Pro Flex is a food grade material and is ideally used for seal energizers or piston seals that are one piece. It can also be used in many other applications.

Features

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

Properties	Specified	Unit	Value
Hardness	DIN 53505	Shore A	85
Density	DIN 53479	g/cm ³	1.2
Tensile strength	DIN 53504	N/mm ²	48
Elongation at break	DIN 53504	%	420
Stress ratio 100%	DIN 53504	N/mm ²	17
Stress ratio 300%	DIN 53504	N/mm ²	38
Compression set 20 °C/24 h	DIN 53517	%	11
Compression set 70 °C/70h	DIN 53517	%	24
Tear strength	DIN 53515	N/mm	110
Elastic recovery	DIN 53512	%	26
Abrasion	DIN 53516	Mg loss	28
Minimum application temperature		°C	-50
Maximum application temperature		°C	120
Elongation at break after 2000h			420
Storage in distilled water at 95°C			420
Swell in water		%	0.3-0.4 n