OZ VITON Fluoro-rubber Viton

Design Description

OZ Viton fluorocarbon combines high temperature and chemical resistance to a broader range of fluids than any of the other elastomers. Low compression set even at high temperatures makes it an appropriate choice of material in most conditions. Its working temperature range varies from 200 C for high to- 20 C for low temperature applications.

First, there are extremely strong bonds between the carbon atoms comprising the polymer backbone and the attached (Pendant) flu-orine atoms. Second, fluoroelastomers features high fluorine to hydrogen ratio. Third, the carbon backbone is fully saturated. Fluorocarbons are a good choice of material for both static and dynamic application.

Features

- Good mechanical resistance
- Superior resistance to hostile environment
- Good weather resistance
- Low compression set
- High temperature resistance

Properties	Specified	Unit	Value
Hardness	DIN 53505	Shore A	87 ± 3
Density	DIN 53479	g/cm³	2.3
Tensile strength	DIN 53504	N/mm²	15
Elongation at break	DIN 53504	%	195
Stress ratio 100%	DIN 53504	N/mm²	10
Compression set			
70°C /24h	DIN 53517	%	5.5
125°C /24h	DIN 53517	%	6.3
150°C /24h	DIN 53517	%	6
Min. application temp		°C	-20
Max application temp		°C	200
Tear strength	DIN 53507	N/mm	5
Abrasion	DIN 53516	mm²	240
Thermal ageing 24h/230°			
Shore hardness change	DIN 53505	Shore A	3
Change of tensile strength at break	DIN 53504	%	11
Change of elongation strength	DIN 53504	%	18
Immersion in ASTM OIL #1 acc to DIN 53521 70h 150°C			
Shore hardness change	DIN 53505	Shore A	-2
Volume change	DIN 53521	%	1.9
Change of tensile strength at break	DIN 53504	%	-15
Change of elongation strength at break	DIN 53504	%	2.6

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