

M SEALS ZC010

Universal RGD Resistant FFKM (Perfluoroelastomer)



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



High Temperature

Description

This universal FFKM compound has been developed to meet service requirements where application conditions may involve high temperature use and/or sealing of high pressure gas. The compound has been modified to provide RGD (Rapid Gas Decompression) resistance and offers similar chemical resistance to that of PTFE while providing elastomeric properties comparable to more standard Fluorocarbon rubbers.

ZC010 provides excellent temperature resistance up to +260°C and is a good choice for applications where other elastomers may not be suitable.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Hardness	ISO 48	IRHD	92
Tensile Strength	ISO 37	MPa	16.2
Elongation at break	ISO 37	%	89
Tear Strength	ISO 34	N/mm	33.8
Specific Gravity	ISO 2781	g/cm ³	1.87
Compression Set Value in Air (24 Hours @ 204°C – 25% Strain)	ISO 815		31.8
Minimum service temperature		°C	-15
Maximum service temperature		°C	+260

Main Characteristics

- Developed for high temperature use
- Superb thermal resistance
- Broad chemical resistance similar to PTFE
- RGD Resistant
- Excellent performance in harsh conditions

Typical Products

- O-Ring Seals
- X-Ring Seals
- Piston T-Seals
- Rod T-Seals
- Custom parts

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