

M SEALS ZC101

Black FDA compliant Perfluoroelastomer (FFKM)



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



FDA Ingredient Compliant



ADI free

Description

ZC101 is a Black 77 IRHD hardness FDA compliant Perfluoroelastomer/FFKM material.

This FDA compliant Perfluoroelastomer (FFKM) compound has been developed to meet severe service requirements where application conditions may involve high temperature use and/or sealing of aggressive media. The compound offers similar chemical resistance to that of PTFE while providing elastomeric properties comparable to more standard Fluorocarbon rubbers.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Density	ISO 2781	g/cm ³	2.28
Hardness	ISO 48	IRHD	77 (+/-5)
Tensile Strength	ISO 37	MPa	18.5
100% Modulus	ISO 37	MPa	12.1
Elongation at break	ISO 37	%	142
Compression set (24 Hours in air @ 204°C)	ISO 815	%	11.9
Minimum service temperature		°C	-15
Maximum service temperature		°C	+260

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Main Characteristics

- Excellent compression set characteristics
- Ingredients are CFR 177.2600 FDA Compliant
- Increased chemical resistance compared to standard FPM/FKM
- Excellent temperature capability
- ADI free

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: sales.esd@m-seals.co.uk . Web: www.m-seals.com

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