

M SEALS ZC101

Black FDA compliant Perfluoroelastomer (FFKM)

MATERIAL DATA SHEET (Version 6.0 – 05.2022)



FDA Ingredient Compliant



ADI free

M SEALS
- Part of Diploma PLC

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 |

Viton™ is a registered trademark of the Chemours company.

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

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