

M SEALS SC826

Metal detectable FDA compliant Silicone



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



FDA Compliant



ADI FREE



Metal Detectable



NUT FREE

Description

M Seals material SC826 is a soft metal detectable Silicone Rubber (MVQ) which has been migration tested in accordance with FDA 21 CFR 177.2600 regulations. This fantastic attribute makes SC826 an excellent material choice for seals and other elastomeric parts which require excellent chemical and/or fluid compatibility while working in static food and beverage applications where contamination is absolutely unacceptable.

Physical Properties

| Property | Test method | Unit | Typical value |
|-----------------------------|--------------|-------------------|---------------|
| Colour | | | Blue |
| Density | ISO 1183 | g/cm ³ | 1.33 |
| Hardness | ISO 7619-1 | Shore A | 60 (+/-5) |
| Tensile strength | DIN 53504-S1 | N/mm ² | 9 |
| Elongation at break | DIN 53504 | % | 410 |
| Minimum service temperature | | °C | -60 |
| Maximum service temperature | | °C | +200 |

Global migration results of FDA extraction on SC826 material samples (mg/inch²)

| FDA test method | Reflux test conditions | Sample 1 | Sample 2 | Sample 3 | Mean | Limit* | Conclusion |
|-----------------|---------------------------|----------|----------|----------|------|--------|------------|
| CFR 177.2600 | De-ionised water, 7 hours | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 | 20 | PASS |
| CFR 177.2600 | De-ionised water, 2 hours | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 | 1 | PASS |
| CFR 177.2600 | N-hexane, 7 hours | 16 | 16 | 16 | 16 | 175 | PASS |
| CFR 177.2600 | N-hexane, 2 hours | 1 | 1 | 1 | 1 | 4 | PASS |

* Maximum acceptable global migration according to FDA CFR 177.2600

Main Characteristics

- Metal detectable
- CFR 177.2600 FDA Compliant
- Extraction tested
- Blue in colour
- Animal Derived Ingredient Free (ADI Free)
- Does not contain ingredients derived from Nuts

Typical Products

- Extrusions
- Profiled gaskets / Lid Seals
- Flexible tubing
- Flat Gaskets
- Joined Rings
- O-Ring Cord / Square Section Cord

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