

M SEALS UC110

FDA compliant Hydrolysis Resistant Polyurethane

MATERIAL DATA SHEET (Version 6.0 – 05.2022 - CATD)



FDA compliant



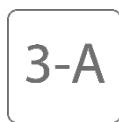
(EU) 10/2011 compliant



(EC) 1935/2004 compliant



ADI FREE



3-A Sanitary Class I

Description

M Seals material UC110 is an FDA Compliant Hydrolysis resistant polyurethane material (H-PU), which has been successfully added to the Inventory of Effective Food Contact Substances (FCS) and also migration tested in accordance with (EU) 10/2011 regulations. UC110 also meets requirements of (EC) 1935/2004 for materials in repeated contact with food. These fantastic attributes make UC110 a good choice for seals and other parts which may require excellent chemical and/or fluid compatibility while working in food and beverage applications where contamination is absolutely unacceptable.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Red
Density	ISO 1183	g/cm ³	1.2
Hardness	ISO 868	Shore A	95 (+/-2)
Tensile Strength	DIN 53504	MPa	≥50
Elongation at break	DIN 53504	%	≥350
Modulus 100%	DIN 53504	Mpa	≥15
Compression set (24 Hours @ 70°C)	ISO 815	%	≤27
Minimum service temperature		°C	-20
Maximum service temperature		°C	+115

Main Characteristics

- CFR 177.2600 FDA Compliance
- Extraction tested in accordance with (EU) 10/2011
- Meets requirements of (EC) 1935/2004 article 3
- ADI free
- Listed on FDA Inventory of Effective Food Contact Substances

Typical Products

- RJT seals
- DIN 11851 D-Seals
- Static Seals & O-Rings
- Depositor seals
- Bespoke Parts