

M SEALS HPU-W93

White Food Compliant Polyurethane

MATERIAL DATA SHEET (Version 7.0 – 01.2025)



(EC) 1935/2004 compliant
(EC) 10/2011 compliant



ADI FREE

Description

M Seals material HPU-W93 is a food contact compliant Hydrolysis resistant polyurethane material (H-PU) that is white in colour and has been modified to provide resistance in the most common food contact applications, such as fatty foodstuff.

The composition of HPU-W93 complies with Article 3 (1) of the regulation (EC) No. 1935/2004 relating to materials and articles intended to come into contact with food. All monomers, substances and additives of polymeric production comply with the requirements of Article 5 and 6 of the Regulation (EU) No. 10/2011 Commission on plastic materials and articles intended to come into contact with food (including amendments).

HPU-W93 is an excellent choice for seals and other parts which may require chemical and/or fluid compatibility while working in food and beverage applications.

Physical Properties

Property	Test method	Unit	Typical Value
Colour			White
Density	ISO 1183-1	g/cm ³	1.20
Hardness	DIN 53505	Shore A	93 (+/-5)
Elongation at break	DIN 53504	%	>445
Modulus 100%	DIN 53504	N/mm	>12.8
Tear strength	ISO 34-1	N/mm	>38
Compression set (24 Hours @ 70°C / 20% deformation)	ISO 815-1	%	≤24
Compression set (70 Hours @ 70°C / 20% deformation)	ISO 815-1	%	≤28
Compression set (24 Hours @ 100°C / 20% deformation)	ISO 815-1	%	≤33
Minimum service temperature		°C	-30
Maximum service temperature		°C	+110

Main Characteristics

- White in colour
- (EC) 1935/2004 & (EC) 10/2011 ingredient compliant
- Good resistance to the most common foodstuff
- ADI free
- Good elasticity

Typical Products

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

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

M Seals believes that the information above is an accurate description of the typical characteristics and/or uses of the product or products, however M Seals makes no warranty, expressed or implied, that parts manufactured from this / and or any other material will perform satisfactorily in the customers application. It is the customers responsibility to thoroughly test products in their specific application to determine performance, efficiency and safety for each end-use product, device or application. The information and data contained herein are based on standard test pieces according to the corresponding ISO, DIN & ASTM standards and cannot be directly related to finished seals, gaskets or other sealing products and should be used only as a general guide.