

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

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