

DMR Material SIL-W85

White FDA compliant Silicone Elastomer Material



MATERIAL DATA SHEET (Version 5.0 – 05.2019)



FDA compliant



ADI free

Description

SIL-BL85 is a white 85a Shore FDA compliant Silicone elastomer material. The material components used for development of this material are in accordance with FDA CFR 177.2600 regulations and are allowed for food contact use.

Silicone elastomers exhibit excellent chemical and thermal resistance against a wide range of media and those commonly found within the food industry.

We do not recommend the use of Silicone elastomers in dynamic applications due to their poor wear and abrasion resistance. SIL-W85 should only be used in hot water and steam applications up to a maximum of 110°C.

Physical Properties

Property	Test method	Unit	Typical value
Colour			White
Density	ISO 1183-1	g/cm ³	1.47
Hardness	ISO 868	Shore A	85 (+/-5)
Tensile Strength	DIN 53504	MPa	≥7
100% Modulus	DIN 53504	MPa	≥5
Elongation at break	DIN 53504	%	≥100
Tear strength	ISO 34-1	Kn/m	≥16.4
Compression set (24 Hours @ 70°C, 25%)	ISO 815-1	%	≤10
Compression set (24 Hours @ 100°C, 25%)	ISO 815-1	%	≥30
Minimum service temperature		°C	-60
Maximum service temperature		°C	+200
Maximum service temperature (Hot water / Steam)		°C	+110

Main Characteristics

- CFR 177.2600 FDA ingredient compliant
- White in colour for easy identification
- No tooling required
- ADI free
- Excellent chemical resistance

Typical products

- Triclover seals
- RJT seals
- DIN 11851 D-Seals
- Butterfly valve seals
- Static seals / O-Rings

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