

# DMR Material SIL-C79

Clear / Translucent Soft Grade FDA compliant Silicone



## MATERIAL DATA SHEET (Version 5.0 – 05.2019)



FDA compliant  
EC 1935/2004 compliant



ADI free

### Description

SIL-C79 is a clear / translucent 79a Shore soft grade FDA compliant Silicone elastomer material. The material components used for development of this material are in accordance with FDA CFR 177.2600 and EC 1935/2004 regulations and are allowed for repeated 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.

### Physical Properties

Property	Test method	Unit	Typical value
Colour			Clear
Density	ISO 1183-1	g/cm <sup>3</sup>	1.18
Hardness	DIN 53505	Shore A	79 (+/-5)
Tensile Strength	DIN 53504	MPa	≥8.9
Elongation at break	DIN 53504	%	≥320
Tear strength	ISO 34-1	N/mm	≥18
Rebound resilience	DIN 53512	%	38
Compression set (24 Hours @ 170°C, 25%)	ISO 815-1	%	≤20
Minimum service temperature		°C	-50
Maximum service temperature		°C	+210
Maximum service temperature (Hot water / Steam)		°C	+110

### Main Characteristics

- FDA & EC 1935/2004 ingredient compliant
- Clear / Translucent colouring
- Soft Grade
- ADI free
- Excellent chemical resistance

### Typical products

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

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: [sales@dmrseals.co.uk](mailto:sales@dmrseals.co.uk) . Web: [www.dmrseals.co.uk](http://www.dmrseals.co.uk)

DMR Seals Ltd believes that the information above is an accurate description of the typical characteristics and/or uses of the product or products, however DMR Seals Ltd 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.