Product Data Sheet

S70C

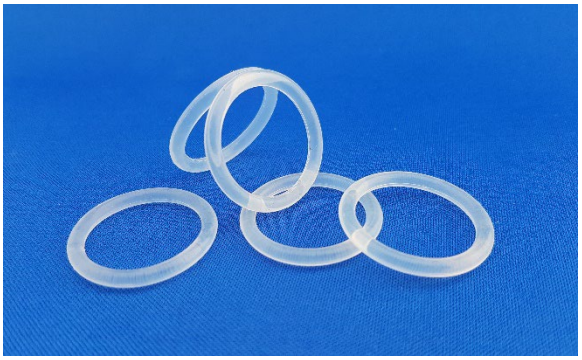
Translucent clear silicone rubber with extended food contact regulations compliance

Description

S70C is a silicone rubber with a unique combination of food contact material regulations compliance, covering at the same time US, European and Chinese markets. It can be used for seals and gaskets expected to come in contact with food; with its extended compliance profile, it offers the end user the benefit of specifying a single material irrespective of the final market.

S70C provides excellent heat resistance, low temperature flexibility and is ideal for static environments.

S70C is ideal for use in food, dairy and pharmaceutical equipment and can be moulded into O-rings and custom shaped components.



Key Attributes

- Compliant with FDA 21CFR177.2600 for use with dry, aqueous and fatty food stuffs (a to f)
- Compliant to German BfR XV recommendation
- Compliant to French Arrêté du 25 novembre 1992
- Compliant to Spain Royal Decree 847 of July 2011
- Compliant to EC1935/2004 and EC2023/2006
- Compliant to China GB4806.11-2016
- Conforms to USP class VI suffix 87 and 88, Biological Reactivity tests
- Compliant to 3A Sanitary Standard 18-03 Class 1
- Free from Animal Derived Ingredients (ADI)

Typical Applications

- Food processing and packaging equipment
- Beverage dispensers and appliances
- Pharmaceutical and biomedical apparatus
- Hygienic seals in dairy equipment

Other materials in the range

S71U Platinum-cured translucent silicone (FDA & USP)

S70H Peroxide white silicone (FDA & USP)

XS7H Detectaseal® metal detectable silicone (FDA & USP)

Typical Material Properties

Property	ASTM	ISO	Value
Material Type	VMQ	VMQ	
Colour			Translucent
Hardness: (Shore A)	D1415	ISO48	71
Tensile Strength (MPa)	D412	ISO37	8.0
Elongation at break (%)	D412	ISO37	400
Compression Set: 24 h @ 70°C (158°F) 70 h @ 175°C (347°F)	 D395 D395	 ISO815 ISO815	 10% 25%
Minimum Operating Temperature			-60°C (-76°F)
Maximum Operating Temperature			+180°C (+356°F)
Heat Ageing: 168 h @70°C (158°F) Hardness change (points) Tensile strength change Elongation at break change	 D1415 D412 D412	 ISO48 ISO37 ISO37	 ±3 RHD ±5% ±10%

SPECIAL NOTE: *This information is to the best of our knowledge accurate and reliable. However, PPE Ltd makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life, therefore a regular program of inspection and replacement is strongly recommended. In non-black grades of elastomer, it is possible to observe slight variations in colour. This is normal and is inherent in the part; it is not indicative of foreign matter. These colour variations are not expected to adversely effect the performance of the part.*

The material properties above should not to be used for specification purposes.

FDA USP 3-A ADI BfR XV

EC1935/2004 EC2023/2006 合规材料 GB4806.11-2016

Europe: +44 (0) 1254 295400 | USA: +1 979 353 7350 | Email: prepol.sales@idexcorp.com | www.prepol.com