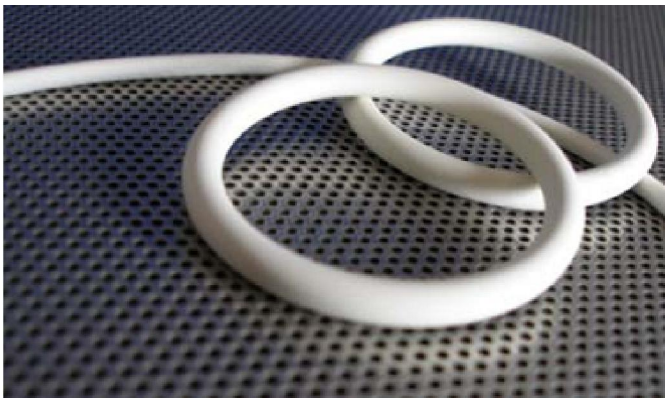
PRODUCT DATA SHEET

Perlast® G74S

Pure white multi-purpose perfluoroelastomer for Life Science applications

PERLAST®



Description

Perlast® G74S has been specifically developed to cope with a wide range of process media, potent active pharmaceutical ingredients (API's) and aggressive cleaning agents, being especially suited to withstand steam-in-place (SIP) and clean-in-place (CIP) procedures within pipe work and vessels. G74S is also suitable for other critical applications such as Water-For-Injection (WFI) systems.

Perlast® G74S can be used for all types of applications requiring FDA and USP Class VI compliance. It is suitable for use in all product contact applications including dry, aqueous and fatty media.

Perlast® G74S is suitable for both dynamic and static applications and can be moulded in to O-rings and custom shapes.

Key Attributes

- Excellent chemical resistance to a wide range of chemicals.
- Superior mechanical properties
- High tensile strength makes G74S ideal for dynamic applications
- Excellent steam resistance (ASME BPE 2000)
- FDA compliant – extraction tested to CFR 21 § 177.2600(e,f)
- USP Class VI <88> and USP<87> compliant
- 3-A Standard 18-03 Class 1 compliant
- Free from Animal Derived Ingredients (ADI)

Typical Applications

Recommended for use in pharmaceutical, bio-analytical and food processing applications, where chemical resistance is crucial, and hygienic sealing capability is critical.

Dynamic seals – Split Butterfly Valve Seals
Ball Segment Valve Seals

Static seals – O-rings
Pressure Safety Rings
Gaskets
Hyclamp® Hygienic & Sanitary couplings
Mechanical Seals

Other materials in this range

Perlast®G75S (white high temperature FDA/USP compliant grade)

FDA USP 3-A ADI

Typical Material Properties

Property	ASTM	ISO	Value
Material Type	FFKM	FFPM	
Colour			White
Hardness: (ºIRHD) (Shore A)	 D1415 D2240	 ISO48	 71 72
Tensile Strength(MPa)	D412	ISO37	17.4
Elongation at break (%)	D412	ISO37	166
100% Modulus (MPa)	D412	ISO37	9.9
Compression Set(%): 72 hrs @ 200ºC (400ºF)	D395	ISO815	25
Minimum Operating Temperature			-15ºC (+5ºF)
Maximum Operating Temperature			+260ºC (+500ºF)
Coefficient of Thermal Expansion (ºC^{-1})			2.9×10^{-4}

***Special Note**: This information is the best of our knowledge accurate and reliable. However, Abbey Seals International 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 programme 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 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 be used for specification purposes.*

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3-A 18-03

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