

Perlast® G74S

Perfluoroelastomer

Precision Polymer Engineering Ltd.

Message:

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 into 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

- Dynamic seals
- Static seals

General Information			
Features	High tensile strength		
	Good chemical resistance		
	Steam resistance		
	Compliance of Food Exposure		
	No kinetic components		
Uses	Washer		
	Pipe seal		
	Piping system		
	Bathroom products		
Agency Ratings	FDA 21 CFR 177.2600		
	USP Class VI		
Appearance	White		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	72		ASTM D2240
IRHD Hardness	71		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	9.90	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	17.4	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	170	%	ASTM D412, ISO 37

Compression Set (200°C, 72 hr)	25	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	260	°C	
Coefficient of Linear Thermal Expansion	2.90E-4		
Additional Information			
Minimum Operating Temperature: -15°C (+5°F)			

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