Perlast® G75S

Perfluoroelastomer

Precision Polymer Engineering Ltd.

Message:

Perlast® G75S 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. G75S is also suitable for other critical applications such as Water-For-Injection (WFI) systems.
Perlast® G75S is an all round material that 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.
Unlike other FDA compliant elastomers, Perlast® G75S is thermally stable at higher temperatures, and is ideal for use in applications which require exposure to temperatures up to 310°C (590°F) making it suitable for use in Stage II Sterilization processes.
Perlast® G75S 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 elongation at break assists installation
High tensile strength makes G75S 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 Extended tensile rate
Uses	Washer Valve/valve components Piping system Seals Bathroom products
Agency Ratings	FDA 21 CFR 177.2600 USP Class VI
Appearance	White

Hardness	Nominal Value	Test Method
Durometer Hardness (Shore A)	80	ASTM D2240
IRHD Hardness	75	ASTM D1415, ISO 48

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	8.80	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	19.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	240	%	ASTM D412, ISO 37
Compression Set (200°C, 72 hr)	20	%	ASTM D395, ISO 815
Thermal	**Nominal Value**	**Unit**	
Maximum Operating Temperature	310	°C	
Coefficient of Linear Thermal Expansion	3.00E-4		

Additional Information

Minimum Operating Temperature: -15°C (+5°F)

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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