Rubber Fab Technologies Group's

The Finest Gasket In The World

Revolutionary Construction

Exceptional Purity

Superior Performance

Animal Derived Ingredient Free



TUF-FLEX[®]

Introducing a Technologically Advanced New Hygienic Seal

Tuf-Flex, the **revolutionary new hygienic** seal from Rubber Fab Technologies Group, is the **world's only unitized** seal setting new standards for **purity**, **performance and flexibility.** Designed to meet critical requirements in pharmaceutical, biotechnology, ultra-pure water, WFI (water-for-injection) and difficult food and beverage processing, **Tuf-Flex outperforms other hygienic seals** while eliminating costly process interruptions.

Performance Based on a Revolutionary Composition

A Tuf-Flex hygienic seal's contact surface is a layer of PTFE grafted to an EPDM rubber inner core. This **totally bonded construction** provides an **exceptionally pure and incredibly flexible seal**.

By grafting the elastomer with a layer of PTFE, **Tuf-Flex will behave like an elastomer** but **will prevent the product contamination, service interruptions and clean-up costs** associated with elastomer seals.





Performance With Exceptional Purity

Because its elastomer core is protected by a unitized layer of PTFE, Tuf-Flex hygienic seals will not **release elastomer extractables** or **particulates** totally **eliminating spalling**. The result is an **exceptionally maintained sanitary tubing I.D. with no I.D. invasiveness or system contamination**.

Achieve Higher Performance Under SIP/CIP Conditions

- Uniting the **flexibility** of an elastomer with the **chemical resistance** of PTFE
- Seats perfectly
- Superior resistance to cold flow and creep
- Excellent chemical resistance
- Minimal thermal expansion

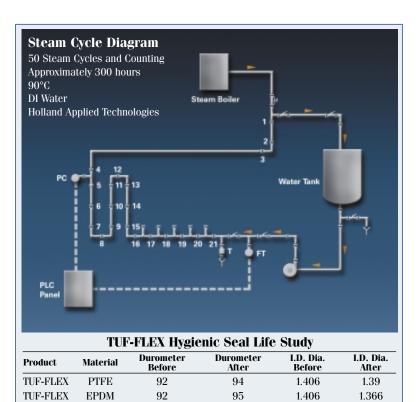
- Leak-proof performance
- Outstanding service life
- Exceptional flexibility

Tuf-Flex Is Ultra-Pure

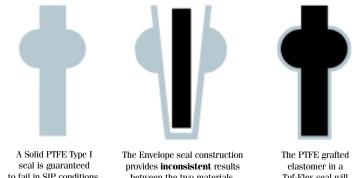
- No extractables, TOCs or particulates to contaminate product stream
- No-pigment
- No gasket I.D. invasion
- Exceptional cleanability response
- Non-stick surfaces
- Maintains seal @ 30 in./lbs.
- Temperature Range: -20°F to 400°F

Tuf-Flex Prevents Process Interruptions

- Perfect cleanability
- No re-torquing
- Up to 100 SIP cycles guaranteed







to fail in SIP conditions. They will creep, cold flow and leak at ΔT .

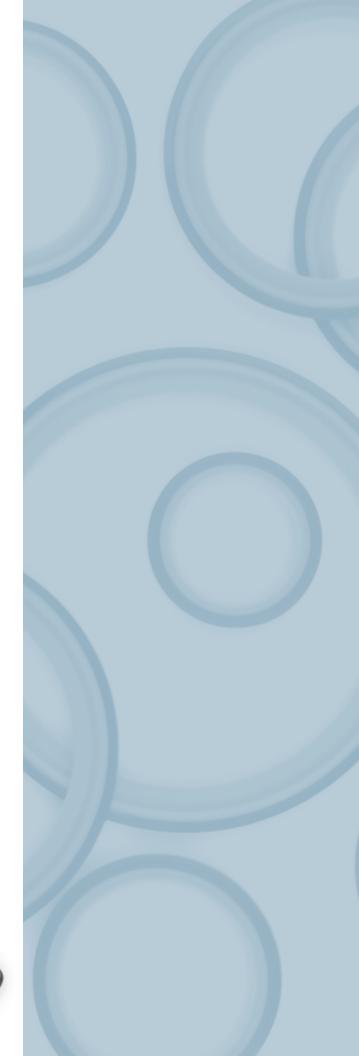
between the two materials. It will also creep, cold flow and leak over time.



TUF-FLEX Hygienic Seal				
Item	Unit	Spec.	"А" Туре	"В" Туре
Normal Condition Test			e na de la secona de Stan de la Secona de la s	
Hardness	HS (JIS A)	80±5	82	77
Tensile Strength	M Pa	9.8 Min.	18.5	16.7
Elongation	%	150 Min.	160	310
Aging Test Hardness Change	POINTS	+5 Max.	+1	+2
Tensile Strength Change	%	-15 Max.	-3.2	-7.2
Elongation Change	%	-25 Max.	-11.6	-19.4
Compression Set Test Compression Set	%	+25 Max.	+7	+13

TUF-FLEX...The World's Only Unitized Hygienic Seal





Specify Tuf-Flex[®], the World's Finest Hygienic Seal

- Unites the **flexibility** of an elastomer with the **chemical resistance** of PTFE.
- Up to 100 steam cycles guaranteed.
- Totally unitized, perfectly sealed.
- Leak-proof performance.
- Superior creep resistance.
- Excellent chemical resistance.
- Minimal thermal expansion.
- No re-torquing necessary.
- Outstanding service life.
- **Outstanding purity** no extractables, TOCs or particulates.
- No gasket extrusion into the I.D.
- Non-stick surfaces.
- No pigments.
- Easy cleanability.

Tuf-Flex Meets Stringent Standards

- U.S. Pharmacopeia Class VI Certification
- Cytotoxicity Criteria
- Title 21 CFR 177.2600 and 177.1550
- USDA and 3-A Sanitary Standards
- Current Good Manufacturing Practices (CGMP)
- ASME-BPE Standards
- Animal Derived Ingredient Free
- © Tuf-Flex and ADI Free are registered trademarks of Rubber Fab Technologies Group.
- * Buna is not an ADI Free elastomer.





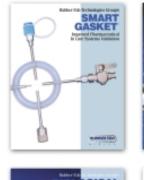
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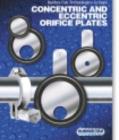
New From Rubber Fab Technologies Group





Design...Validation...Production ...Quality Assurance *Improving Product Quality and Consistency.*















Rubber Fab Technologies Group, a Material Science Company, is a leading innovator of high quality sanitary hygienic seals, hose assemblies, valve, pump and filler machine components in a wide range of high purity elastomer materials. For additional information, contact Rubber Fab at 973-579-2959 or visit us at www.rubberfab.com.

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