



### Dura-Flex by TB Wood's

Dura-Flex couplings "split-in-half" element design allows for easy element installation/replacement without moving connected equipment or disturbing the shaft connection. Spacer design can accommodate a large range of shaft spacing with few parts. Patented design minimizes bond stress for long coupling life. Highly flexible and able to accommodate shaft misalignment while minimizing vibration and preventing damage to connected equipment.

- Easy to assemble/replace
- High misalignment ratings
- No maintenance/lubrication
- Part-for-part interchangeable with industry standard design
- In-stock versatile spacer design can accommodate many configurations with few parts

# Get Durability with Dura-Flex®

By TB Wood's

Extensive testing shows...

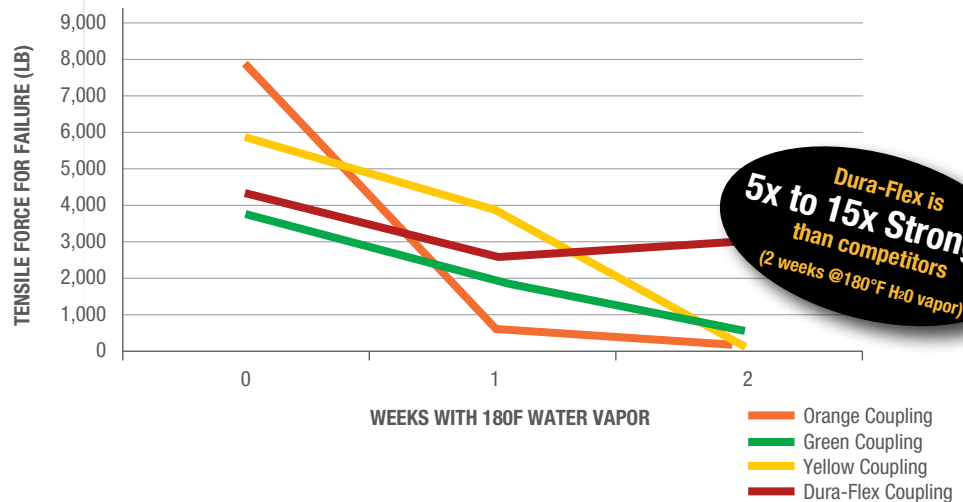
## Three different types of competitor urethane tire couplings could not match the performance of Dura-Flex®



Dura-Flex polyether urethane material has a much better resistance to the effects of hydrolysis than competitor materials

The graph below shows an accelerated rate of exposure. Competitor's couplings may not deteriorate in two weeks, but overtime, will see the affects of water vapor in all environments, quicker than a Dura-Flex coupling.

### Tensile Test





## Dura-Flex Features

**Tensile Strength:** 5X – 15X stronger in water vapor

**Shelf Life:** Greater than 5 years

**Bond:** 15 years proven field performance

**Inventory:** Three of our competitors' products can't match the performance of one Dura-Flex

**Cost:** Lower cost and better performance than green coupling

**Quality:** High quality control on materials produces a more consistent, reliable coupling

**Weight:** Lower flex element weight by design

**Material:** Polyether material is better than competitor's polyester material

**Easy Installation:** Easy flex element replacement without moving hubs or connected equipment

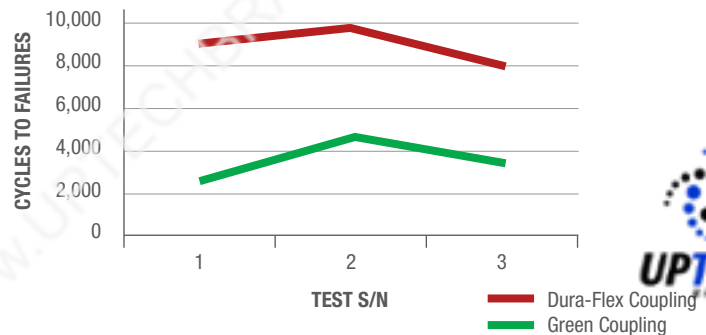
**Versatility:** Part-for-part interchange with industry standard design

**Options:** Bore-to-size (BTS), Sure-Grip bushed (QD), Taper-Lock hubs and full metric coupling sizes available

**Cap Screws:** SAE j-429 hex-flange bolts with serrated head

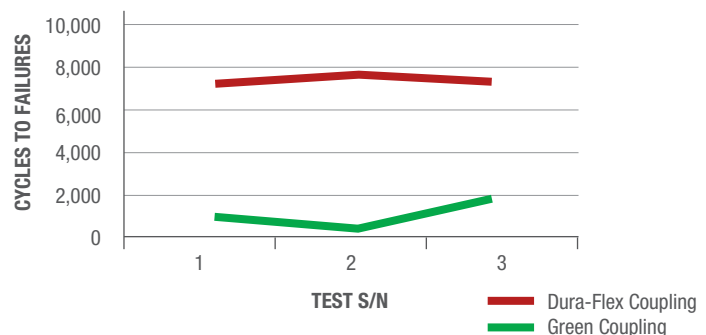
# Dura-Flex® resists breaking down due to environmental conditions and holds its fatigue and tear strength properties longer.

## Stop Start Test Cycles (Aligned)



When a new, out-of-the-box, Dura-Flex coupling and a green coupling were subjected to a stop-start cycle test, Dura-Flex was 2X – 100X better.

## Stop Start Test Cycles (2° Mis-Aligned)



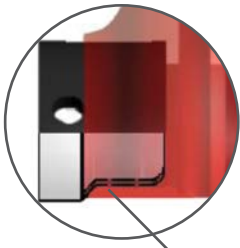
Dura-Flex outlasted the competitor in the cycle testing with up to 2 degrees of shaft misalignment.



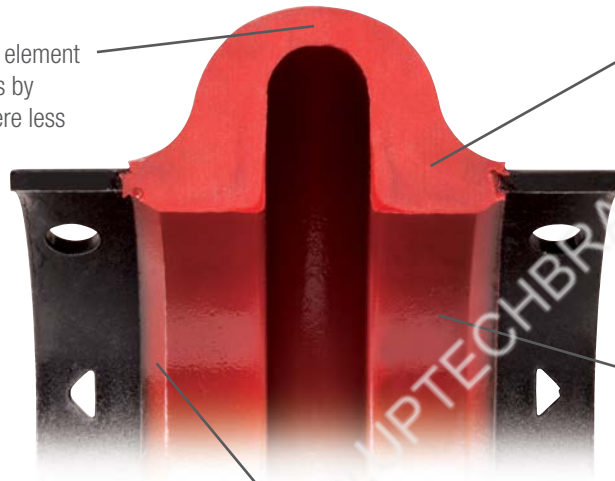
## Dura-Flex® Design Advantages

- Profile designed using Finite Element Analysis
- Designed to optimize torque transmission while minimizing parallel, angular and axial stiffness
- More consistent performance in many real life environments than competitors
- Features a superior bonding process
- All units are 100% inspected before leaving the factory

Lowered weight of the element and optimized stiffness by removing material where less stress is present.



Step profile in shoe, lowers stress which can cause failure at the bonding point.



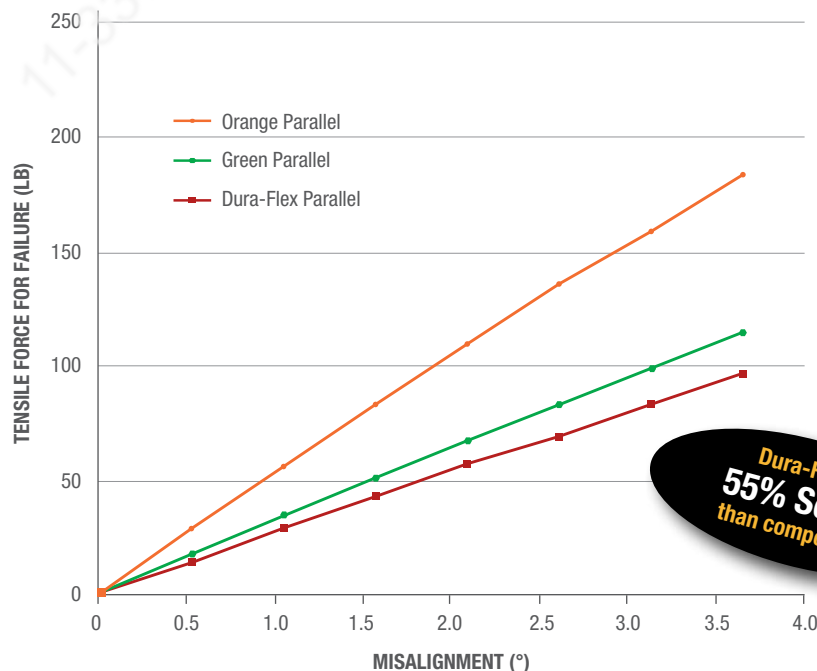
Polyether Urethane has a better resistance to hydrolysis effects. Humidity, which is present in every manufacturing environment and pump installation, will eventually degrade inferior couplings.

Dura-Flex has a superior bonding process.

Better environmental field performance than competitors.



### Bending Stiffness Static: Dura-Flex vs Competitor



Dura-Flex has much lower shaft bending stiffness values, resulting in low vibration and reduced bearing loads for longer equipment life.

Dura-Flex has balanced hubs, consistent process and optimized profile (less urethane mass), resulting in good assembly balance and low vibration levels.

**Dura-Flex is 55% Softer than competitors**



### **TB Wood's Dura-Flex® Elastomeric Coupling features:**

- Patented shoe design minimizes bond stress to ensure long life.
- Superior element geometry provides better flexibility. Superior material provides longer life in tough environments.
- Available in metric and "inch" versions.

Customer Service: 1-888-829-6637 Press #5      Tech Support: 1-888-829-6637 Press #7

#### **Why should a customer choose Dura-Flex over any other flex coupling?**

**Because:**

- a) Easy Installation. The "split-in-half" element design allows for flex element replacement without moving hubs or connected equipment.
- b) No lubrication or maintenance.
- c) Bonded elastomer design. Makes Dura-Flex ideal for VFD (Variable Frequency Drive) pump and fan applications.
- d) High misalignment capability



### **TB Wood's Sure-Flex Plus® Elastomeric Coupling features:**

- Sure-Flex Plus is an original TB Wood's design.
- Widest selection of sizes on the market.
- Very economical, while still providing quality features and benefits.
- 50 years of proven performance.

Customer Service: 1-888-829-6637 Press #5      Tech Support: 1-888-829-6637 Press #7

#### **Why should a customer choose Sure-Flex Plus over any other flex coupling?**

**Because:**

- a) Flexible. 4-Way flexing action, absorbs shock, vibration, misalignment and end float.
- b) No lubrication or maintenance.
- c) Quick & Easy Installation. No bolts, gaskets, covers or seals.



### **TB Wood's G-Flex Grid Coupling features:**

- Based on Bibby Technology. Bibby is the inventor of the original grid coupling.
- 100% interchangeable with industry standard tapered grid coupling.
- Horizontal and vertical covers available.

Customer Service: 1-888-829-6637 Press #5      Tech Support: 1-888-829-6637 Press #7

#### **Why should a customer choose G-Flex over any other grid coupling?**

**Because:**

- a) Features a shot preened tapered grid element for long life and high performance.
- b) High torque/Economical. Combines the economy and high torque of a gear coupling and the torsional flexibility of an elastomeric coupling.
- c) Easy Installation. Grid element design allows for easy installation or replacement without moving connected equipment.

