

## MARINE FUEL BLADDER TECHNICAL SPECIFICATIONS

Our bladders are made of patented thermoplastic polyurethane with directional molecule technology that provide the optimal flexibility, elasticity and strength properties to withstand the most demanding conditions. encountered during your shipment.

|                       |  |                       |   |
|-----------------------|--|-----------------------|---|
| <b>Grade</b>          | Fuel Grade - Potable water   | <b>Approved Fuels</b> | Gasoline, Diesel, Ethanol, Kerosne, 100LL Fuel<br>Bio-Diesel, Lubricants, #2 & #4 Fuel Oil                    |
| <b>Material</b>       | TPU Composite 1.25mm / 1490mm - 35 oz w<br>Internal nylon mesh 30x28 | <b>Loading Cap</b>    | Material: Aluminum 1.5" double seal<br>Top Gasket: Viton<br>Bottom Gasket: Polyethylene                       |
| <b>Capacity</b>       | 30 - 250 Gallons (Stock Sizes)<br>Custom Sizes Available             | <b>Ball Valve</b>     | Material: S/S Ball Valve<br>Flange connector: 1/2" Male Threaded<br>Fuel Line connector: 1/2" Female Threaded |
| <b>Types</b>          | Top Load & Top Discharge (TLTD)<br>Top Load & Side Discharge (TLSD)  | <b>Fuel Line</b>      | Material: Rubber<br>Length: Approx 7'<br>Diameter: 3/8" ID<br>Connector: 1/2" Male Threaded w/ 3/8" reducer   |
| <b>Max Pressure</b>   | 5 PSI  |                       |   |
| <b>Pressure Valve</b> | Material: Bronze<br>System: Manual<br>Connection: 3/8" Male Thread   |                       |   |

| TEST                   | UNIT             | METHOD    | LIMIT                    | RESULTS          |
|------------------------|------------------|-----------|--------------------------|------------------|
| Total Thickness        | mm               | HG/T 3051 | 1.25±0.02                | 1.25             |
| Total Weight           | g/m <sup>2</sup> | HG/T 3051 | 1420±10%                 | 1377.8           |
| Hardness               | Shore A          | GB/T 2411 | 85±5                     | 85               |
| Tensile Strength       | N/25mm           | HG/T 2580 | WARP ≥1700<br>WEFT ≥1700 | 2407.5<br>2577.5 |
| Elongation at Break    | %                | HG/T 2580 | WARP ≥20<br>WEFT ≥20     | 30.3<br>32.6     |
| Tear Strength (Tongue) | N                | HG/T 2581 | WARP ≥160<br>WEFT ≥160   | 295.1<br>324     |
| Adhesion Strength      | N/20mm           | HG/T 3052 | FACE ≥200<br>BACK ≥200   | 234.8<br>261.9   |

**APPLICATIONS** Multi use flexible bladder intended for marine use and transportation or carriage of combustibles. Also applicable for storage of waters including potable water provided it has not been used for any fuel prior.

This information is correct to the best of our knowledge. We recommend the user establish themselves that the material performs satisfactorily for their own requirements. Quoted test results cannot be used as specifications limits, but are typical values intended for guidance. No liability is accepted by us for any damage, injury or loss resulting from the use of this information.