

FIREQUIP™

SPECIFICATION SHEET

ATTACK LITE POLY - LDH



FIREQUIP ATTACK LITE POLY LDH THERMO-POLYURETHANE (TPU) LINED SUPPLY LINE FIRE HOSE SPECIFICATIONS

Fire hose is one of the most important tools used by the fire department. As such, the following specification must be strictly adhered to unless the proposed specification exceeds specification listed. Only the fire department can determine if a proposed product meets and exceeds these specifications.

Scope: This specification applies to 4" and 5" sizes of Double Jacket Large Diameter Hose. The hoses shall be suitable for a test pressure of 600 PSI with a service test pressure of 300 PSI.

Material and Workmanship: All materials used in the fabrications of the Large Diameter Hose shall be of the best quality normally used for the purpose in good commercial practice for the type designated. The workmanship shall be of the highest quality.

Jacket Specification: The jacket shall be well, evenly and firmly woven and shall be free from unsightly defects, dirt, knots, lumps and irregularities of twist that might affect the serviceability of the finished product.

The jacket shall be seamless and shall have sufficient interwoven warp ends to completely cover the filler yarns. The filler yarns shall be of a tensile strength adequate to meet the physical test requirements hereinafter detailed.

The warp ends in all sizes shall be 100% virgin spun polyester. The filler yarns shall be 100% virgin filament polyester. There shall be a minimum of 13.0 filler yarns per inch in the inner jacket of the 4" and a minimum of 10.5 filler yarns per inch in the outer jacket. There shall be a minimum of 14.0 filler yarns per inch in the inner jacket of the 5" and a minimum of 10.0 filler yarns per inch in the outer jacket.

Jacket Treatment: The standard hose shall be plain, natural white with optional Wear Guard color treatment available. The outside jacket shall be treated with a high performance polymeric dispersion Wear Guard elastomer compound. The compound shall completely encapsulate every fiber of the substrate so as to provide water repellency, heat resistance, abrasion resistance, and oil and chemical resistance. The color of the Wear Guard treatment will also provide a high degree of visibility. **Colors Available: Yellow, Red, Orange, White**

Lining: The lining shall consist of a clear extruded synthetic polymeric compound. It shall be highly resistant to ozone and oxidation, compounded and processed to give long life under good maintenance practices. S.B.R. (Styrene Butadiene Rubber) or similar type synthetic rubber liner will not be considered as meeting this specification.

The lining shall be extruded of uniform thickness throughout its length. The waterway shall be smooth and free from imperfections in order to keep friction loss to a minimum.

The thickness of the lining shall be 0.020" minimum.

The adhesion between the lining and the jacket shall be such that the rate of separation of a 1 ½" wide strip of lining from the jacket shall not exceed 1" per minute under a weight of 12 pounds.

All Measurement and Tests: All measurements and tests shall be in accordance with specifications UL, NFPA 1961, F.M. and RMA test methods for rubber hose, ASTM D-296 and D-380, except where otherwise prescribed in this specification. NOTE: ALL TEST RESULTS ARE BASED ON ACTUAL LABORATORY TESTS. TEST RESULTS MAY VARY DEPENDING ON EQUIPMENT AND CONDITIONS.

Hydrostatic Pressure Tests: Proof Pressure. Each length of 4" or 5" hose shall withstand a hydrostatic pressure of 600 PSI for a period of 15 seconds without breaking any threads in the jacket.

Elongation - The elongation of the 4" or 5" hose, while under a 600 PSI hydrostatic pressure shall not exceed 10% of the length from an initial measurement taken at a pressure of 10 PSI.

Twist - The 4" or 5" hose under 600 PSI hydrostatic pressure shall not twist more than 1 ½ turns per 100 feet. Direction shall be that which will tighten the couplings, except a maximum of 2 degrees per foot in the direction to loosen the couplings will be permitted while the pressure is being raised from 0 to 600 PSI provided that the final twist is in the direction to tighten couplings.

Warp and Rise - The 4" or 5" hose, under 600 PSI hydrostatic pressure shall not warp more than 12 inches from a straight line drawn from center to center of the fittings on the ends of the hose. No rise from the level of the test table shall be permitted.

Kink - A full length of hose while kinked shall withstand, without rupturing or breaking any threads in the jacket, a hydrostatic pressure of 300 PSI.

Straight Burst - A 3 foot specimen of the hose while lying straight shall have the pressure increased until burst occurs. The pressure at which the burst occurs shall not be less than 900 PSI for the 4" or 5" hose.

Curved Burst - A 3 foot specimen of the hose while curved to a radius of 27 inches shall have the pressure increased until burst occurs. The pressure at which the burst occurs shall not be less than 900 PSI for the 4" or 5" hose.

The hose shall be in lengths of up to and including 100 feet when measured from back to back of the couplings at a pressure of 10 psi.

Marking: Beginning approximately 4 feet from each end, each 100 foot length shall be stenciled in letters at least 1 inch in height with the name or trademark of the manufacturer, the month and year of manufacture and with the words "SERVICE TEST TO 300 PSI".

Warranty:

The manufacturer warrants the hose to be free from defects in materials and workmanship for a period of five years. This warranty shall provide for the repair or replacement of hose and couplings proven to have failed due to faulty material or workmanship.

FIREQUIP ATTACK LITE POLY LARGE DIAMETER HOSE PERFORMANCE AND WEIGHT CHART

HOSE SIZE	PROOF TEST PRESSURE (psi)	SERVICE TEST PRESSURE (psi)	BURST TEST PRESSURE (psi)	COUPLING BOWL SIZE (in.)	WEIGHT PER 100' UNCPLD (lbs)
4"	600	300	900	4-3/8"	68
5"	600	300	900	5-3/8"	84

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