



HOT-STOP

SERIES 5000 INSULATED SWIMMING POOL COVERS

Description: Floating, non-safety, insulated swimming pool cover used to provide water and chemical evaporation reduction as well as heat retention. Each section shall be sized for convenient daily operation. All material must be UV, corrosion, mildew, oil and rot resistant. All ends and edges shall be reinforced as well as all pull grommets.

1.1 Covers Material

1.1.1 Three (3) layer composite, laminated material consisting of Volara 2A foam middle layer protected on both sides by a woven outer layer. Finished material shall be blue in color on both sides.

1.1.2 Outer layers shall be a woven, black, high-density, ultra-violet stabilized polyethylene substrate coated on both sides with a 2.0 mil Low-density polyethylene film. Substrate density shall be measured per square inch.

1.1.3 Middle Layer shall be 0.120" thick, cross-linked, 2 pound per cubic foot Volara 2A polyethylene foam.

1.1.4 The material shall have a R-Factor of 4.144

2.1 Physical Properties - Laminated Covers Material

Specification Units ASTM Test Method

2.1.1 Weave/Weight 12 x 12/7.3 oz/yd² N/A

2.1.2 Foam Density 2.0 lbs./ft³ N/A

2.1.3 Foam Thickness 0.120 in. N/A

2.1.4 Tensile Strength 500/480 lbs. (Warp/Fill) D-5034

2.1.5 Mullen Burst 980 psi D-3786

2.1.6 Tongue Tear 140 lb/150 lb (Warp/Fill) D-5884

2.1.7 Trapezoidal Tear 140 lb/130 lb D-4533

2.1.8 Thickness of Woven Fabric (prior to lamination) 15 mil (.40mm) (±10%) D-1777

2.1.9 'R' Value 4.144 N/A

2.1.11 Service Temperature -40 to +160 N/A

2.1.12 Accelerated Weathering >90% strength retention after 2000 hours G-154-06

2.1.13 Woven Material shall have a proprietary additive that increases flex crack resistance ASTM D-6182, increases abrasion resistance ASTM D3884-92 and increases seam strength (peel) ASTM D-4851

2.2 Physical Properties – Woven Edging Material

Specification Units ASTM Test Method

2.2.1 Material is 5 ply 40 mil

2.2.2 Weave/Weight 16 x 16/12 oz/yd²

2.2.3 Tensile Strength 370/345 lbs.

2.2.4 Mullen Burst 675 psi.

2.2.5 Accelerated Weathering >90% strength retention after 2000 hours G-154-06

2.2.6 Accelerated Natural Weathering >80% strength retention after 5 Florida Standard Years

2.2.7 Material shall have minimum 4 mils of LDPE coating with proprietary additive that increases flex crack resistance ASTM D-6182, increases abrasion resistance ASTM D3884-92 and increases seam strength (peel) ASTM D-4851



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3.1 Manufacturing Processes

- 3.1.1 All Seams and edging shall be welded. NO thread, sewing/stitching shall be accepted.
- 3.1.2 Grommets shall be brass #8 rolled rim with spur washers.
- 3.1.3 Reel end shall have 1 ½" stiffener bar, which shall be non-corrosive and buoyant.
- 3.1.4 Pulley end shall have 4" stiffener bar, which shall be non-corrosive and buoyant.
- 3.1.5 All cutouts shall be reinforced with additional edging material.

4.1 Warranty

- 4.2 Covers shall carry a (FIVE) 5-year manufactures written limited warranty against defective materials and workmanship.
- 4.3 Straps, snaps and buckles carry a lifetime parts only replacement warranty.