



INSULATED SWIMMING POOL COVER SYSTEMS

Pool Blanket Specifications

1010 STD ThermGard®

Description: Floating, non-safety, insulated swimming pool cover used to provide water and chemical evaporation reduction and heat retention.

1.1 Blanket Material

- 1.1.1 Three (3) layer composite, laminated material consisting of foam middle layer protected on both sides by a woven outer layer. Finished material shall be blue in color on one side and black on the other.
- 1.1.2 Outer layers shall be a woven, high-density, ultra-violet stabilized polyethylene substrate coated on both sides with a 1.5 mil polyethylene film. Substrate density shall be measured per square inch.
- 1.1.3 Middle Layer shall be 0.140" thick (before laminating), cross-linked, 2 pound per cubic foot polyethylene foam.

2.1 Physical Properties – Laminated Blanket Material

	Specification	1010 STD	Units	ASTM Test Method
2.1.1	Weave Density	40	Strands/in. ²	N/A
2.1.2	Foam Density	2.0	lbs./cu.ft.	N/A
2.1.3	Foam Thickness	0.140	in.	N/A
2.1.4	Tensile Strength	376/367	lbs. (Warp/Fill)	D 5034
2.1.5	Bursting Strength	536	psi	D 751
2.1.6	Tear Strength	81.0/78.1	lbs. (Warp/Fill)	D 2261
2.1.7	Thermal Conductivity	0.25	Btu/(hr.)(ft. ²)(°F/in.)	N/A
2.1.8	Thickness (prior to lamination)	0.161	in. (±10%)	N/A
2.1.9	'R' Value	.566		N/A
2.1.12	Service Temperature	-40 to +160	°F	N/A
2.1.14	UV Protection	Maximum **		

** Industry standard maximum UV Resistance of "More than 90% strength retained after 2,000 hours exposure".

3.1 Manufacturing Processes

- 3.1.1 Sewing - Two-needle, lock stitch shall be used on all seams.
- 3.1.2 Reinforced Ends - Two (2) layers of coated, 12x12 woven polyethylene shall be used across each blanket end.
- 3.1.3 Grommets - Solid brass, rolled rim, spur type, size #4 grommet shall be used at three (3) places along each blanket end.
- 3.1.4 Grommet Locations - Two (2) additional layers of coated, 12x12 woven polyethylene and one (1) 0.125" thick ABS plastic plate shall be used in conjunction with each grommet.
- 3.1.5 Thread - Polyester, 100% bonded, UV resistant, size 12 thread shall be used throughout blanket.
- 3.1.6 Weighted Edge (option) - Solid, extruded vinyl (non-metallic) wrapped in two (2) layers of coated, 12x12 woven polyethylene shall be used along the length of each blanket.
- 3.1.7 Hemmed Edge (option) - Two (2) layers of coated, 12x12 woven polyethylene shall be used along the length of each blanket.



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