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WickGard® Anti-Wick Finish

Improves the durability and appearance of outdoor fabrics

WICKGARD® FINISH IS A PROPRIETARY “NO-WICK” FINISH SPECIFICALLY DESIGNED FOR USE IN OUTDOOR FABRICS. ITS ANTI-WICKING PROPERTIES PREVENT THE WEAKENING OF BOND STRENGTH (DELAMINATION) DUE TO MOISTURE, AND INHIBITS UNAPPEALING AESTHETIC PROBLEMS SUCH AS MILDEW AND DISCOLORATIONS.

PHYSICAL PROPERTIES

Physical Property	PET Fibers with WickGard® Finish	PET Fibers without WickGard® Finish
Fiber Water Repellency ⁽¹⁾	Very high contact angle (close to 100 degrees) indicates non-wetting properties.	Significantly lower contact angle (close to 30 degrees) indicates greater wetting.
Fabric Wicking Performance ⁽²⁾	One-quarter inch maximum ⁽³⁾	Approximately 5-1/2 inches
Fabric Properties	Superior retention of original mechanical and physical properties.	Coated fabric is vulnerable to loss of mechanical integrity due to moisture pickup and mildew growth.
Cost Savings	Eliminates need for post-treating fabrics for water repellency. Fiber can be woven, knitted or weft-inserted on a variety of equipment.	Fabrics may require costly and time-consuming after-treatments for water repellency.
Durability	Repeated water washings show no effect on non-wetting properties of treated fibers, which are cured for permanence and superior durability.	Coatings applied to fabric instead of fiber result in uneven, less durable coatings.

(1) Estimated from wetting force measurements of fibers in water using Wilhelmy-type Electro Balance.

(2) Fabric immersed in dye solution for 2 hours; vertical migration after 2 hours at room temperature measured on a 6-inch long substrate.

(3) Fiber coating in fabric cured at 320°F for 30 seconds.

Product Characteristics:

- Ideal for outdoor fabrics where appearance and performance are paramount, including backlit signs, tents and architectural structures, roofing membranes, awnings, casual and marine furniture
- Specially formulated to enhance the performance of Substraight® polyester fibers in deniers from 220 to 2000.
- Use of WickGard® finish in coated and laminated fabrics will not adversely affect the tensile, dimensional stability or adhesion properties of the fabric itself.

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