

moisture transport in needle-punched fabrics



Technical Bulletin 380904

Made entirely from annually renewable resources such as corn, Ingeo™ fibers have the performance advantages of both natural and synthetic materials. Additionally, the performance benefits of Ingeo are inherent in the fiber, requiring no treatment or finish. The performance will not diminish or fade after washings or over time.

test

Strips of needle-punched non-woven fabric made with Ingeo fiber and polyester were tested to compare the fabrics' wicking ability. The strips, machine direction (MD) and cross-machine direction (CD), were dipped into a glass filled with colored water to measure the movement of the water in the fabric. Measurements were taken at 5, 20, 30, 40, 60 and 120 minutes.

results

Testing shows that Ingeo fibers have excellent wicking performance inherent in the fibers. Ingeo fibers outperformed polyester with and without a finish in the two-hour test.

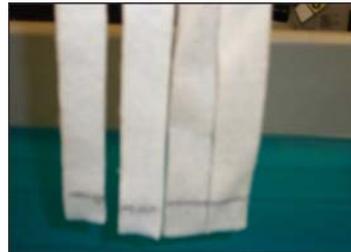
Strip Order (left to right)

PET 3 DPF, 6 oz sq/yd (MD)

PET 3 DPF, 6 oz sq/yd (CD)

PLA 3 DPF, 6 oz sq/yd (MD)

PLA 3 DPF, 6 oz sq/yd (CD)



Property	PLA Without Finish	PET Without Finish	PLA With Finish	PET With Finish	Comments
Avg. Wicking Height (in. after 2 hrs.)	1.00	0.00	2.00	1.00	PLA 100% greater wicking

Ingeo Worldwide Offices

Amsterdam, Hong Kong, London, Milan, Minneapolis, New York and Tokyo



www.ingeofibers.com

Contact

1 800 66 INGEO (USA only)
+1 989 633 1746 (Worldwide)

Ingeo and the EcoPLA design are trademarks of NatureWorks LLC © 2005
15305 Minnetonka Blvd., Minnetonka MN 55345

GSFIB038092005V2

No freedom from any patent of NatureWorks LLC or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, NatureWorks LLC's customers are responsible for determining whether the products and information in this document are appropriate for the customer's use and for ensuring that the customer's workplace and disposal practices are in compliance with applicable laws and regulations. NatureWorks LLC assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN: ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.