

Ingeo™ Fiber Brings Natural Performance: Low Odor Release

Recent testing by Odor Science and Engineering, Inc. (OS&E) shows that NatureWorks LLC’s Ingeo™ fibers outperform polyester for low odor retention

Objective

Two fabric samples were tested, one made from 100 percent Ingeo™ fibers and the other 100 percent polyester (PET), to determine the effectiveness of the fabric in the control and retention of odor associated with the human body and physical activity.

testing

OS&E prepared an odor that represented the “typical locker room/body odor” and applied equal amounts of the solution onto each of the fabrics.

The samples were placed into 25-liter sampling bags and sealed. The bags were filled with 20 liters of carbon-filtered, odor-free air and were maintained at room temperature overnight. The following day the headspace air in the bags was analyzed by dynamic dilution olfactometry using a trained panel of eight members. The samples were quantified in terms of dilution to threshold (D/T) ratio and odor intensity.

To determine longer-term odor retention of the fabric samples, OS&E removed the samples from the bags, exposed them to open air for a period of one week and then evaluated them again.

results

Ingeo fibers significantly outperformed the polyester sample in all areas of OS&E’s testing. It retained less odor after the initial dosing and became odor free by the end of the test. The polyester sample was found to have both higher initial and residual odor concentration and pungency and was ranked 25 percent more odorous than the Ingeo fibers sample.

figure 1

sample identification	odor concentration (D/T)	characteristics
initial dosing		
Ingeo Fibers	182	Locker room/body odor
Polyester	237	Locker room/body odor
after one week		
Ingeo Fibers	<5	No odor detected
Polyester	18	Odor remains

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