

Metal free
antibacterial
yarn



glair™

ANTEX

During our day to day activities, we are constantly exposed to germs and bacteria that can be the origin of infections.

Glair is a new family of metal free antibacterial yarns developed on modified polymers that inhibit the growth of bacteria on fabrics, while respecting our natural bacteria.

MAIN FEATURES



Anti Odor Yarn

Thanks to the Antibacterial and Antifungal Activity



Permanent Effect



Extraordinary Softness

POTENTIAL APPLICATIONS

Apparel — Home Textiles

Automotive — Carpets — Healthcare



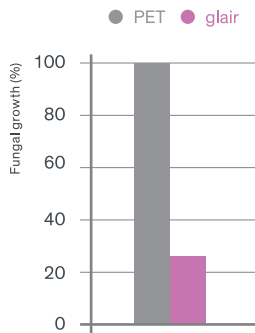
Politecnico di Milano
Dipartimento di chimica, materiali ed ingegneria
chimica "Giulio Natta"

Experimental Studies of antifungal activity on PET based fibers

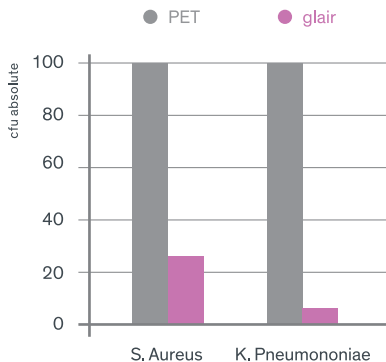
ISO 13629-2:2014

Aspergillus aculeatus ATCC 36411

(*A. aculeatus*)



Bacterial concentration after 18 hrs – Post Inoculation DIN EN ISO 20743A:2013-12



HOHENSTEIN

glair antibacterial activity

	Mittelwert / average value		Germ reduction
	KBE absolut / cfu absolute	log KBE / log cfu	log KBE
Staphylococcus aureus ATCC 6538			
0h	-	-	3,02
18h	$7,03 \times 10^2$	2,85 *	
Klebsiella pneumoniae ATCC 4352			
0h	-	-	$\geq 6,54$
18h	< 20	$\leq 1,28$ *	

* Common logarithm of number of viable bacteria (average of 3 test pieces) after 18 hours incubation on treated specimen.

Assesment criteria

Defined of Hohenstein Laboratories (according to DIN EN ISO 20743:2013, Appendix F)

Antibacterial activity	Growth reduction efficacy [log cfu]
no	< 0,5
slight	$\geq 0,5$ to 2
significant	≥ 2 to 3
strong	≥ 3

Note: A certificate of the antibacterial activity can only be granted only if a significant efficacy is given – independent of the antibacterial graduation.

There is a **strong antibacterial activity** with the test strains *staphylococcus aureus* ATCC 6538 and *klebsiella pneumoniae* ATCC 4352 under given test conditions for the tested samples, calculated with the control material (non treated pes).



HEADQUARTERS

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