



# Antibacterial Masterbatch for Fibers

## Product Specifications

Product Name	Natural PET-TT3397	Natural PET-TT3403
Base Resin	Polyethylene Terephthalate (PET) Resin	
Zinc Oxide (%)	20	40
Standard Addition Amount (%)	2	1
Form	Pellet	
Packaging	Aluminum-Lined Paper Bag	
Package Weight (kg)	20	

## Features

- Imparts antibacterial effects to polyester fiber products with a small addition amount.
- The antibacterial effect on the treated fiber products remains even after dyeing or washing.

## Antibacterial Test Data

Item		Bacteria (1) (Gram-Positive Bacteria)	Bacteria (2) (Gram-Negative Bacteria)
Undyed Fiber Antibacterial Activity Value A *	0 washes	5.8	6.2
	10 washes	5.8	4.3
Dyed Fiber Antibacterial Activity Value A *	0 washes	3.9	4.0
	10 washes	3.7	2.2

### [Test Conditions]

- Fiber Type: PET Fiber (Yarn)
- Addition Amount: Natural PET-TT3397 2%
- Test Standard: JIS L 1902
- Test Method: Bacterial Solution Absorption Method
- Dye for Dyeing: Disperse Blue Dye

### [Antibacterial Effect]

Antibacterial Activity Value A *	Antibacterial Effect
$2.0 \leq A < 3.0$	Effect observed
$3.0 \leq A$	Strong effect observed

\* Standard fabric bacterial growth value – Antibacterial treated sample bacterial growth value  
(Bacterial growth value is the logarithm of the viable cell count)

The antibacterial test data is an example conducted by a testing institution certified by the Society of International sustaining growth for Antimicrobial Articles (SIAA) and does not guarantee the effect. Please verify sufficient performance under your usage conditions.



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