

# Antibacterial-deodorizing Insole





ITRI modifies panel glass into glass porous materials, which are impregnated with antimicrobial metal ions, mixed into plastic pellets, and then undergoes foaming molding and spinning to produce insoles with antibacterial and deodorizing functions.



Blending

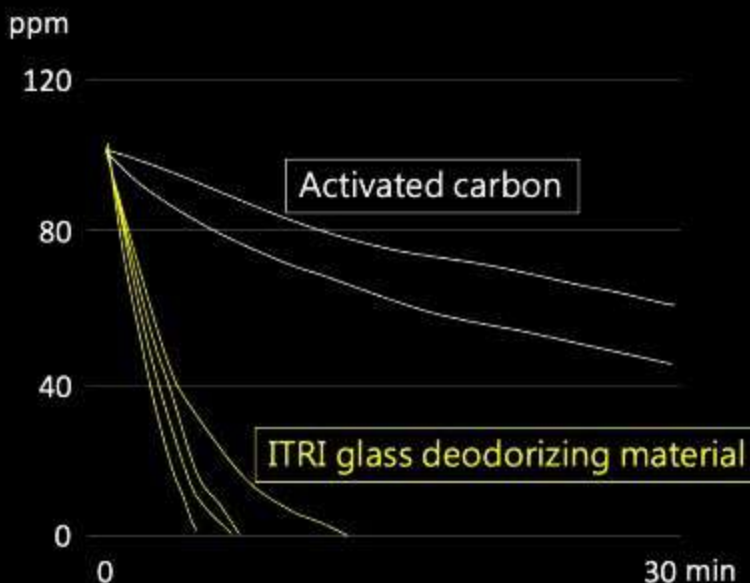
Plastic pellets



Test strains	Test time	Sterilization rate
E. coli 	5h	96%
	24h	99.9%
S. aureus 	5h	90%
	24h	99.9%

Food Industry Research and Development Institute. Report number : 2022CT246 Test method : AATCC 100.

## Ammonia concentration



The glass deodorizing material developed by ITRI for insoles can effectively reduce the concentration of ammonia in the environment, and its performance surpasses that of traditional activated carbon.

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