

# Antibacterial activity data - Plastics

※An antibacterial index of >2.0 (≥99% killing ratio) of a treated article with antimicrobial agent might be considered as “Antibacterial Article”

PP Plate (test method: JIS Z 2801)

Sample name	gram-positive bacteria		gram-negative bacteria	
	Viable cells	Antibacterial activity rating	Viable cells	Antibacterial activity rating
Blank	9.3×10 <sup>2</sup>	—	1.3×10 <sup>5</sup>	—
Zeomic 0.5%	ND	> 3.1	ND	> 5.3

ABS Plate (test method: JIS Z 2801)

Sample name	gram-positive bacteria		gram-negative bacteria	
	Viable cells	Antibacterial activity rating	Viable cells	Antibacterial activity rating
Blank	8.7×10 <sup>4</sup>	—	1.8×10 <sup>6</sup>	—
Zeomic 0.5%	ND	> 5.1	ND	> 6.5

# Antibacterial activity data - Plastics

PE Film (test method: JIS Z 2801)

Sample name	gram-positive bacteria		gram-negative bacteria	
	Viable cells	Antibacterial activity rating	Viable cells	Antibacterial activity rating
<b>Blank</b>	2.9×10 <sup>3</sup>	—	5.8×10 <sup>5</sup>	—
<b>Zeomic 0.5%</b>	ND	> 3.6	ND	> 5.9

PE Cutting Board (test method: JIS Z 2801)

Sample name	After one-month use		After four-year use	
	Viable cells	Antibacterial activity rating	Viable cells	Antibacterial activity rating
<b>Blank</b>	4.3×10 <sup>5</sup>	—	7.1×10 <sup>5</sup>	—
<b>Zeomic 0.5%</b>	ND	> 4.6	ND	> 4.8

*Because Sinanen Zeomic does not control the use, processing or method of use to which others may put its antimicrobial agents, Sinanen Zeomic does not guarantee the effectiveness or suitability of the agents for use in any particular process, application or article of manufacture. These agents are not suitable for or efficacious in all applications to which a user may desire to apply them. The user of any agent described in this Product Information Bulletin should conduct their own tests to determine the suitability of the agent in their particular process, application or article of manufacture.*