

TEST CERTIFICATE

BT-19-03-08-01

Dresden, 08/03/2019

Client: KASTAMONU INTEGRATED WOOD INDUSTRY LLC
SEZ "Alabuga", SH-3 street, building 3/3
423600 Yelabuga, Russian Federation

Products: Floor coverings: 8 mm 32 Cl / 8 mm 33 Cl / 7 mm 31 Cl

Order: Antibacterial test of a flooring surface

Test engineer: Dipl.-Biol. Katharina Plaschkies

Test standard: ISO 22196 (2011): Plastics – Measurement of antibacterial activity on plastics surfaces.

Replicates: 6 (3 specimens, 2 replicates per dilution)

Incubation: 24 hours at 36 °C

Reference material: Polyethylene film

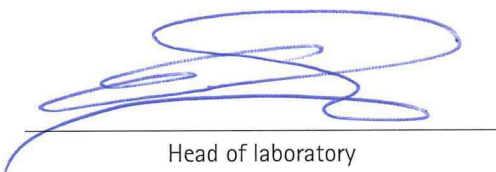
Test area: 40 mm × 40 mm

Test report: No. 2219009, 08/03/2019

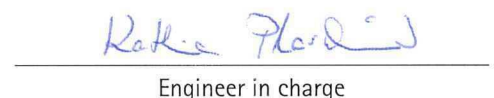
Results

	<i>Escherichia coli</i>	<i>Staphylococcus aureus</i>
Concentration of the inoculum	1.0×10^6 cfu/ml	1.0×10^6 cfu/ml
Theoretical recovery rate on the material	2.5×10^4 cfu/cm ²	2.5×10^4 cfu/cm ²
Recovery rate of viable bacteria after 0 hours on the reference material	3.8×10^4 cfu/cm ² lg = 4.6	4.4×10^4 cfu/cm ² lg = 4.6
Recovery rate of viable bacteria after 24 hours		
▪ Reference material	3.1×10^5 cfu/cm ² lg = 5.5 = U _T	8.7×10^3 cfu/cm ² lg = 3.9 = U _T
▪ Test materials no. 1, 2, 3	$< 6.0 \times 10^3$ cfu/cm ² lg < 0.8 = A _T	$< 6.0 \times 10^3$ cfu/cm ² lg < 0.8 = A _T
Antibacterial activity R = U _T - A _T	> 4.7	> 3.1

A clear antibacterial activity is given if R ≥ 1.0.



Head of laboratory

Engineer in charge