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Entwicklungs- und Prüflabor Holztechnologie GmbH
Zellescher Weg 24 · 01217 Dresden · Germany
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TEST CERTIFICATE

BT-19-04-01-01

Dresden, 01/04/2019

Client:	KASTAMONU INTEGRATED WOOD INDUSTRY LLC SEZ "Alabuga", SH-3 street, building 3/3 423600 Yelabuga, Russian Federation
Products:	Laminate flooring Floorpan, Artfloor, Ideal, Sunfloor, Artens, Floormax
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

	Escherichia coli	*Staphylococcus aureus*
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/cm²	2.5×10^4 cfu/cm²
Recovery rate of viable bacteria after 0 hours on the reference material	3.8×10^4 cfu/cm² lg = 4.6	4.4×10^4 cfu/cm² lg = 4.6
Recovery rate of viable bacteria after 24 hours		
▪ Reference material	3.1×10^5 cfu/cm² lg = 5.5 = U_T	8.7×10^3 cfu/cm² lg = 3.9 = U_T
▪ Test materials	< 6.0×10^3 cfu/cm² lg < 0.8 = A_T	< 6.0×10^3 cfu/cm² lg < 0.8 = A_T
Antibacterial activity $R = U_T - A_T$	> 4.7	> 3.1

A clear antibacterial activity is given if $R \geq 1.0$.

Head of laboratory

Im Institut für Holztechnologie Dresden gemeinnützige GmbH
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QUALITÄT GEPRÜFT

Engineer in charge