

T E S T C E R T I F I C A T E

BT-20-08-11-02

Client: Kronospan HPL sp. z o.o.
ul. Wojska Polskiego 3, 39-300 Mielec, Poland

Product: Laminate HGP/HGS according to EN 438

Order: Determination of the antibacterial properties of surfaces

Test engineer: Dipl.-Biol. Katharina Plaschkies

Test standard: ISO 22196 (2011): Measurement of antibacterial activity on plastics and other non-porous surfaces

Inoculum: 500,000 CFU/ml

Incubation: 24 hours at 36 °C

Reference material: Polyethylene film

Test area: 40 mm × 40 mm

Test report: no. 2220029-A1 (16/07/2020)

Results:

**Decimal logarithm of the number of viable bacteria
after the incubation time of 24 hours [CFU/cm²]**

	<i>Staphylococcus aureus</i> DSM 799	<i>Escherichia coli</i> DSM 1576
Reference material	$U_{T_Sa} = 3.4$	$U_{T_Ec} = 3.2$
Test product	$A_{T_Sa} < 1.1$	$A_{T_Ec} < 1.1$
Antibacterial activity*: $R = U - A$		
Test product	$R_{Sa} > 2.3$	$R_{Ec} > 2.1$

*) A clear antibacterial activity is given if $R \geq 1.0$ at both bacteria strains.

The test product is classified as "antibacterial".

Dresden, 11/08/2020



Head of laboratory




Engineer in charge