

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

BT-20-05-11-01

Client: KRONOSPAN GmbH Lampertswalde, Mühlbacher Straße 1, 01561 Lampertswalde, Germany

Product: DPL flooring 6 - 14 mm
All DPL products from Kronoflooring GmbH Lampertswalde have the same coating system.

Manufacturer: KRONOSPAN GmbH Lampertswalde, Mühlbacher Straße 1, 01561 Lampertswalde, Germany

Order: Determination of the antibacterial properties of flooring surfaces

Test engineer: Dipl.-Biol. Katharina Plaschkies

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

Replicates: Test materials: 3 specimens / reference material: 5 specimens

Incubation: Duration: 24 hours / climate: 36 ± 2 °C / 95 ± 4 %

Inoculum: 5.0×10^5 cfu/ml

Reference material: Polyethylene film

Test area: 40 mm × 40 mm

Test reports: No. 2220018-1, 2220018-2 (17/04/2020)

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	$U_{TSa} = 4.6$	$U_{TEc} = 5.7$
DPL flooring, structure NL	$A_{NL_{Sa}} < 1.1$	$A_{NL_{Ec}} = 4.5$
DPL flooring, structure RT	$A_{RT_{Sa}} < 1.1$	$A_{RT_{Ec}} = 3.4$

Antibacterial activity*: $R = U - A$

DPL flooring, structure NL	$R_{NL_{Sa}} > 3.5$	$R_{NL_{Ec}} = 1.2$
DPL flooring, structure RT	$R_{RT_{Sa}} > 3.5$	$R_{RT_{Ec}} = 2.3$

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

The test material is classified as “antibacterial”.

Dresden, 11/05/2020



Head of laboratory




Engineer in charge