

# 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:  $36 \pm 2$  °C /  $95 \pm 4$  %

**Inoculum:**  $5.0 \times 10^5$  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/cm<sup>2</sup>]

	<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	$A_{R\_TSa} < 1.1$	$A_{RT\_Ec} = 3.4$

**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