

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

## BT-20-07-20-01-A1

**Client:** SPRELA GmbH  
Westbahnstraße 1, 03130 Spremberg

**Test material:** HPL-laminate, white, thickness: 0.7 mm, Typ HGP according to EN 438

**Manufacturer:** SPRELA GmbH  
Westbahnstraße 1, 03130 Spremberg

**Order:** Determination of the antibacterial properties of surfaces

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

**Test report:** no. 2220039-2 (20/07/2020)

**Results:** The classification bases on the following values:

	Decadic logarithm of the viable number after incubation over a period of 24 hours [CFU/cm <sup>2</sup> ]	
	<i>Staphylococcus aureus</i> DSM 799	<i>Escherichia coli</i> DSM 1576
Reference material polyethylene film:	$U_{TSa} = 3.3$	$U_{TEc} = 4.2$
Test material HPL-laminate:	$A_{TSa} < 1.1$	$A_{TEc} = 1.9$
<b>Antibacterial activity*: <math>R = U_T - A_T</math></b>	$R_{Sa} > 2.2$	$R_{Ec} = 2.3$

\*) The surface is antibacterial, if  $R \geq 1.0$  at both bacteria strains.

**The surface of the tested HPL-laminate is classified as „antibacterial“.**

Dresden, 20/07/2020



Head of laboratory




Engineer in charge