

ELESGO®

LABORATORY FURNITURE

Tailor-made

ELESGO surfaces are the perfect possibility to give laboratory benches a high-quality, durable, and haptically appealing design. Through the manufacturing method with EBC technology the surfaces can be provided with special characteristics and with the chemical resistance ELESGO surfaces are the perfect fit for laboratories.

Features:



ANTI-BACTERIAL



HEAT-RESISTANT



CHEMICAL-RESISTANT



SCRATCH-RESISTANT



MICROSCRATCH-RESISTANT

Typical application:

Top layer of HPL laboratory worktops

Décors and colours:

Plain colours and decorative printed décors

Colour tolerance:

ΔE -value ≤ 1.0 CIELAB76, measured according to d/8° by D65/10° (plain colours)

Width:

~ 1,000–1,600 mm (plain colours)

technical data sheet

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ON TOP

ELESGO

Chemical resistance

DTS Method after 24h

Test substance	Concentration %	plain colours	décors	plain colours antibacterial (²)	décors antibacterial (²)
Acid					
Acetic Acid	99	no change	no change	no change	no change
Formic Acid	85	no change	no change	no change	no change
Hydrochloride Acid	37	no change	no change	no change	no change
Nitric Acid	65	slight change	slight change	slight change	slight change
Phosphoric Acid	85	no change	no change	no change	no change
Sulphuric Acid	96	slight change	slight change	slight change	slight change
Leaches					
Ammonium Hydroxide	25	no change	no change	no change	no change
Sodium Hydroxide	10/20/40	no change	no change	no change	no change
Potash	25	no change	no change	no change	no change
Salts					
Iron Oxide	10	slight change	no change	slight change	no change
Potassium Permanganate	10	no change	no change	no change	no change
Silver Nitrate	1	slight change	no change	slight change	no change
Sodium Chloride	10	no change	no change	no change	no change
Sodium Hydrochloride	10	no change	no change	no change	no change

Chemical resistance

DTS Method after 24h

Test substance	Concentration %	plain colours	décors	plain colours antibacterial (²)	décors antibacterial (²)
Halogens					
Iodine Tincture	100	slight change	no change	slight change	slight change
Organic chemicals					
Dimethylformamid	> 99	no change	no change	no change	no change
Benzine	no % value	no change	no change	no change	no change
Hydrogen Peroxide	3	no change	no change	no change	no change
Solvent					
Acetone	> 99,5	no change	no change	no change	no change
Ethanol	96	no change	no change	no change	no change
Methanol	mind. 99,8	no change	no change	no change	no change
Methyl alcohol	mind. 99,8	no change	no change	no change	no change
Tetrahydrofurn	≥ 99	no change	no change	no change	no change
Toluene	≥ 99,5	no change	no change	no change	no change
Ethyl acetate	≥ 99,5	no change	no change	no change	no change
Colourants					
Congo Red	1	no change	no change	no change	no change
Malachitegreen Oxalate	1	no change	no change	no change	no change
Methylene Blue	10	no change	no change	no change	no change

Texture	plain colour	décors	plain colours antibacterial ⁽²⁾	décors colours antibacterial ⁽²⁾
Grammage g/m ² (*)	~ 210-250	~ 215	~ 210-250	~ 215
Scratch resistance DIN EN 438-2:2019	Level 5	Level 4	Level 4	Level 4
Gloss level 60° Angle	~ 12-16 ⁽¹⁾	~ 12-16 ⁽¹⁾	~ 12-16 ⁽¹⁾	~ 12-16 ⁽¹⁾

(¹) Depending on the colour or the Release film’s thickness

(²) Accomplishment in the dependence on ISO 221196:2007

We tested the following micro-organisms:
Germs:

Staphylococcus aureus DSM 21979 (MRSA)
Staphylococcus epidermidis EDCC 5130 (MRSE)
Escherichia coli DSM 1576

The reduction of CFU complied with quantitative antimicrobial effect.

Product composition

Substrate:	Uni-coloured or decorative printed papers
Impregnation:	Transparent EB-curable resins
1. Coating:	Pigmented or transparent UV stable EB-curable resins
2. Coating:	Transparent UV stable EB-curable resins
Release film:	PP-film temperature stable <120° C

* For the adjustments of the surface’s quality during the production process, DTS reserves the right to vary the coating grammage. All technical and optical parameters will be fulfilled also with variations in the coating weight or coating thickness. The values are excluding DTS release film.

All used resins are free of solvent and formaldehyde.

Please refer to the ELESKO HPL storage and handling recommendations.