Web: www.elexlaminat.com.tr

Tel: +90 543-246-0101

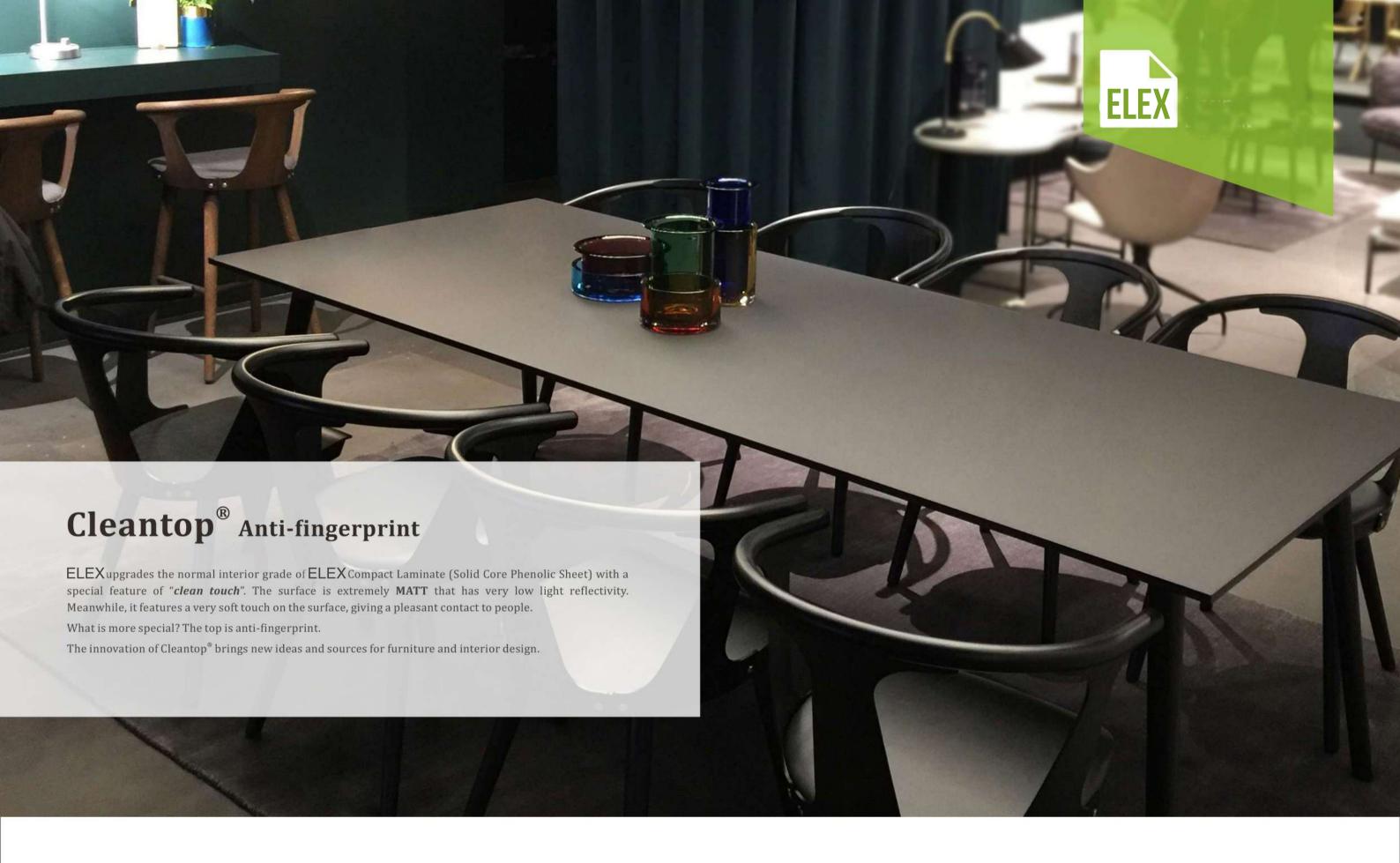
Tel: +90 212-268-02-02

Email: info@elexlaminat.com.tr

Adres: Kemerburgaz cad. 49, Ayazağa,

Sarıyer/İstanbul, Türkiye 34396





I love the surface.

EBC

Thanks to the use of the *Latest* technology---*Electron Bean Curing*, the surface of ELEX Cleantop® is strongly resistant to scratches, abrasion and microbes.

Moreover, It thermally heals any superficial micro-scratches. It is particularly suitable for *Hospitality and Hygiene* sectors that exploited as kitchen counter top, dining table, bathroom cabinet and hospital furniture etc that is made accordance with EN 438 properties.

Technology

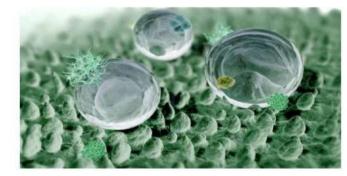


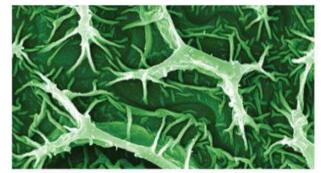


Lotus Effect

As we know, Lotus plant (also called as "Numlebo Nucifera") has super-hydrophobic surface. Water drops that fall onto them bead up and roll off. These leaves not only stay dry, but the droplets pick up small particles of dirt as they roll, so that the lotus leaves are even self-cleaning.







(Lotus leaf structure under Scanning Electron Microscope)

There are micro-and nanoscopic architecture on the surface of the lotus leaves, which minimizes the water droplet's contact angle (>150°) and surface tension.

The Ultra hydrophobicity and self-cleaning properties of the lotus leaf have been synthetically reproduced in industries by scientists to achieve stain resistance, grease removal, and staying clean.

 $\frac{3}{4}$

Feature

Low light reflectivity, Extremely matt surface

Thermal healing of micro-scratches

Anti-fingerprint

Soft touch

Resistance to scratches and abrasion

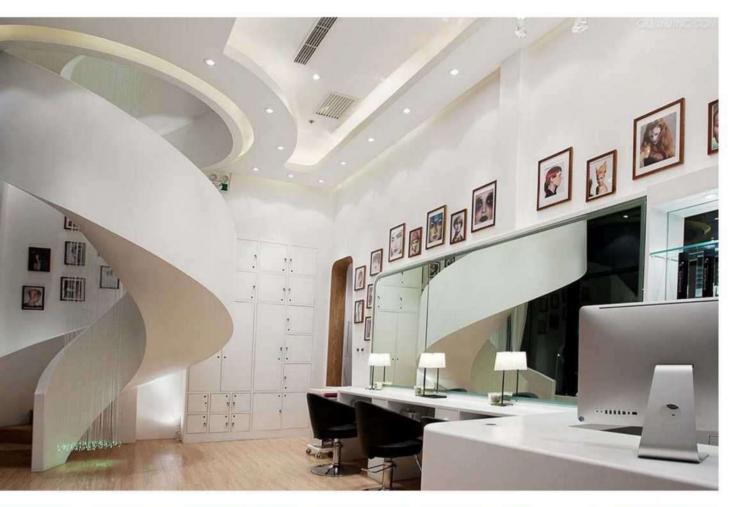
Resistance to dry heat

High resistance to acid solvents and household reagents

Enhanced anti-bacterial properties









Application

KITCHEN
HAIR SALON
BATHROOM
HOSPITALITY

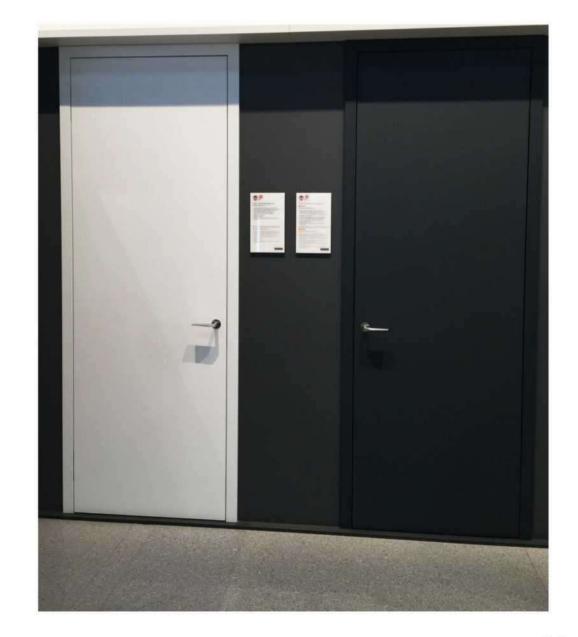






Application

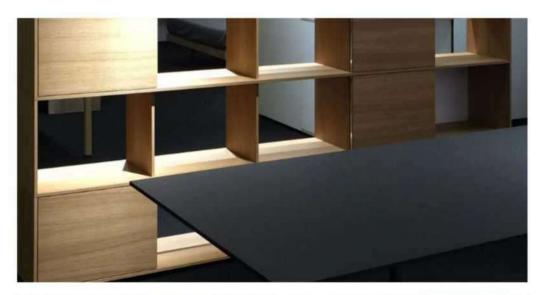
DOOR EXHIBITION





Application

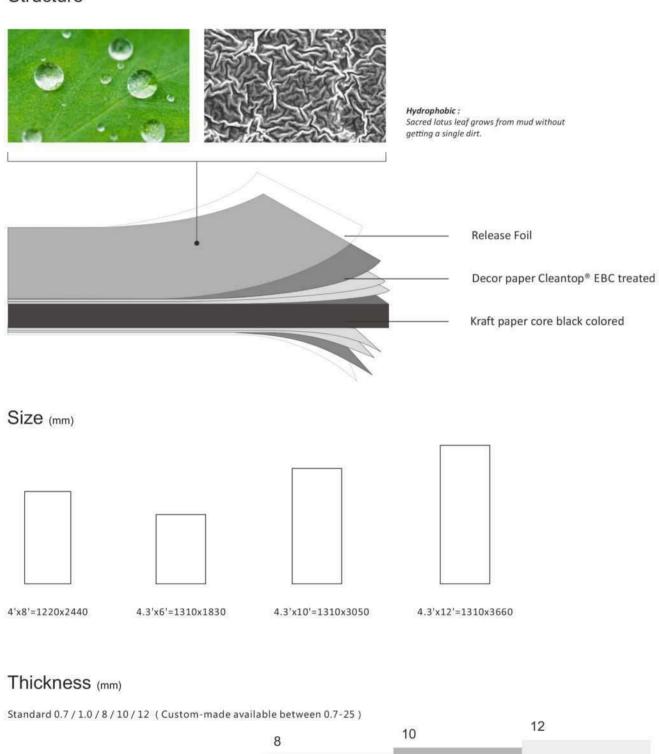
FURNITURE OFFICE





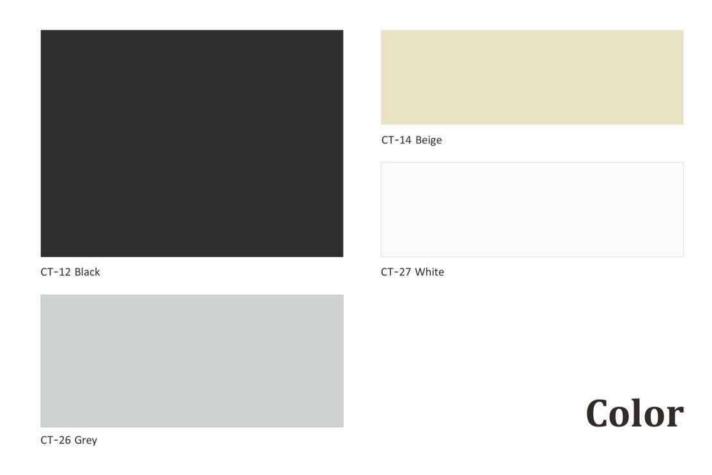
Specification

Structure





CT-13 Anthracite



CT-22 Brown Beige CT-15 Dark Blue CT-16 Dark Red CT-17 Dark Green CT-18 Pigeon Blue

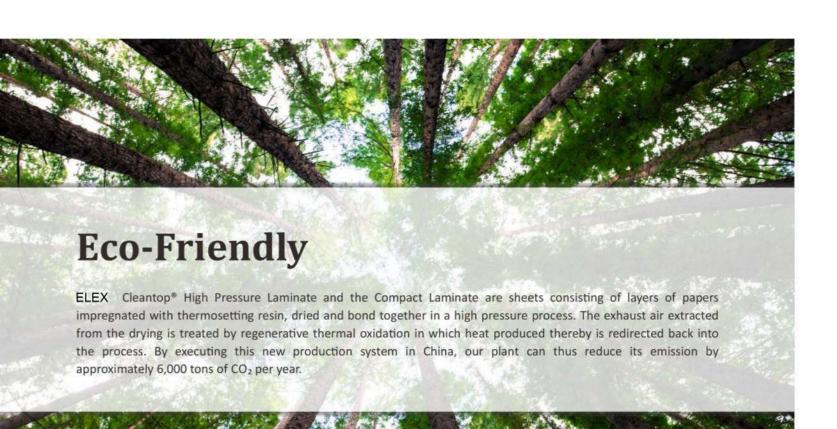
0.7

Testing Standard & result

Properties	Value	Unit	Standard	
Specifications, Dimensional To	olerances			
Thickness (mm/max)	5.0 ≤t < 8.0mm : ±0.40mm 8.0 ≤t < 12.0 12.0≤t < 16.0mm : ±0.60mm 16.0≤t < 20.0 20.0≤t < 25.0mm : ±0.80mm 25.0mm≤t : t	8.0mm : ±0.40mm 8.0 ≤t < 12.0mm : ±0.50mm 16.0mm : ±0.60mm 16.0≤t < 20.0mm : ±0.70mm 25.0mm : ±0.80mm 25.0mm≤t : to be agreed a supplier and customer. (T=nominal thickness) 6.0mm : 8.0mm/m 6.0≤t < 10.0mm : 5.0mm/m		
Flatness (mm/m <max>)</max>				
Physical Properties				
Density weight	≥1350	kg/m³	ISO1183	
> Thickness 6mm	8.7	kg/m²	ISO1183	
> Thickness 8mm	11.6	kg/m²	ISO1183	
>Thickness10mm	14.5	kg/m²	ISO1183	
> Thickness 12mm	17.5 kg/m²		ISO1183	
Optical Properties				
Immersion in boiling water (10	0°C water for 2 hours)			
> Mass increase	0.3	%	EN 438-2	
>Thickness increase	0.5	%	EN 438-2	
> Appearance	4	Rating	EN 438-2	
Thermal conductivity	=0.23	W/(m k)	EN 438-2	
Mechanical Properties				
Modulus of elasticity	> 10000	Мра	ISO 178	
Flexural strength	≥100	Мра	ISO 178	
Tensile strength	≥70	Мра	ISO 527-2	
Scratch resistance	≥3	Rating	EN 438-2	
Resistance to crazing	≥4	Rating	EN 438-2	
Face screw-holding	> 5000	N	ISO13894-1:2000	
Water vapour permeanility	Wet cup:110,dry cup:250	μ	ISO12572	
Resistance to sigarette burns	≥3	Rating	EN 438-2	
Abrasion Testing	144.5	mg	EN 438-2:10	
Impact Resistance	90.4J	MBFE	ASTM D 256-06a	
Linear expansion with change in moisture content	0.0065%	1	ASTM D 1037-06 section 24	
Fire Classification				
Reaction to fire	Type FR=12mm Euroclass B-s	Type FR=12mm Euroclass B-s1,d0		
Factory Production Control (F	PC) ISO9001/ISO14001/OHSAS	ISO9001/ISO14001/OHSAS18000		



Properties	Standard	Property Or Attribute	Unit	Values
Release of formaldehyde	EN 717-2	Gas analysis	mg/(m² x h)	0.2-0.4
	EN 13986	Formaldehyde emission rating	rating	Class E1
Volatile Organic Chemical Emissions	Greenguard IAQ according to EPA TO-17 and ASTM D 6196 EPA TO-11A	Individual VOCs	TLV	≤ 0.1
		Formaldehyde	ppm	≤ 0.025
		TVOC	mg/m³	≤ 0.25
	and ASTM D 5197	Total Aldehydes	ppm/ppb	≤ 0.05
		Total Particles	mg/m³	≤ 0.05
Contact with food	EN 1186-3	3% acetic acid 24h at 40°C		< 10
	EN 1186-3	50% ethanol 24h at 40°C		< 10
	EN 1186-14	95% ethanol 24h at 40°C	mg/dm² < 10	
	EN 1186-14	isooctane 24h at 40°C		< 10
	EN 13130-23	3% acetic acid 24h at 40°C	< 15	
	ISO 17070	PCP	mg/kg	< 0.05
Evaluation of micro-organisms action			bacterial viability:	
	JIS Z 2801 / ISO22196:2011	Antimicrobial activity after 24h at 35°C	- Log reduction	> 2.4
			- reduction %	> 99.9



The kraft papers we used are mostly recycled papers (also called "regenerated papers") which are from waste papers processed into "kraft papers". Meanwhile, we also use wood-based kraft papers in the raw core to achieve balance of the sheets. We source these raw materials from vendors certified according to the standards of FSC or PEFC. These standards ensure that the recycle content or wood is produced in compliance with international applicable rules for sustainable forestry.

The laminates are cured and chemical inserted. However, the volatile organic compounds emission from the surface and the core are very low due to its bonding production technique. The panels do not contain limited substances that listed in the Candidate of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before 2017.

Chips and shavings produced by processing (cutting and milling) are not hazardous to human health. This also means that waste can even be disposed of thermal without the emission of environmental toxins such as hydrochloric acid, organic chlorine compounds or dioxins. Principally, the waste must be disposed according to specific country laws and regulations.



Design Edge





ELEX Cleantop® offers 10 unique color designs as standard. Meanwhile, ELEX offers also element design service by the Cleantop® using cutting-edge CNC machinery.

We are able to help you to fulfill your imagination.







Certification under anniv

17 | 18



International Quality

ELEX (ELEX Dis Ticaret Sanayi ve Ticaret Ltd. Sti.) was started in 2015 in Turkey by a pool of specialists from HPL Industries. Even though we were pioneer at that time, now the warehouse system located in Istanbul, Turkey responds to diverse market conditions and maintains a vast inventory of Compact Fiberboards (CDF) within reach of the customers. For these years, ELEX has been selling high-quality, innovative Compact Fiberboard solutions for versatility and demanding environment. ELEX delivers high-performance, high quality panels where state-of-the-art production technologies for both surfacing and solid core are used while meeting and exceeding national and international standards.

Today we use our knowledge of the wood-based artificial board, to promote the new Compact Fiberboard for more interior creation possibilities. We strive to pursuit continued improvement in the design and quality of sheets.





About ELEX

Innovating Decorative Boards

ELEX (ELEX Dis Ticaret Sanayi ve Ticaret Ltd. Sti.) was founded in 2015 with a simple vision to provide architects, designers, builders and eventually the end users with comfort, reliability and sources of creation.

For the last years, ELEX has been promoting Compact Fiberboards for a wide variety of applications of both interior and exterior as structural and decorative building materials. ELEX wins its honor of high-quality product performance and long-term partnership with its sales networks worldwide.

ELEX works closely with worlds' finest suppliers for the best international quality. It uses up-to-date décor colors, surface textures and cutting-edge production technologies to get the best results of Quality and Innovation. Today, the company keeps on outsourcing new materials for new design concepts, cost effectiveness and ecology. Why to choose ELEX? Because we provide high quality CDFs for the most affordable prices on the market for applications such as retails, hospitality, healthcare, education, office and institutions. Cost-effective longevity that other providers can't match.



SGS

REACH



