



High Gloss Panel (MDF Based)

ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 and EN 15804:2012+A2:2019

S-P Code S-P-01993

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Yes

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About Company

Maintaining its uninterrupted production for half a century in the wood-based panel industry, Kastamonu Entegre is a global-scale company engaged in production in 6 countries, with investments in Romania, Bulgaria, Bosnia and Herzegovina, Russia, Italy and Turkey. In the USA, it has a company that carries out wood chip supply and logistics processes.

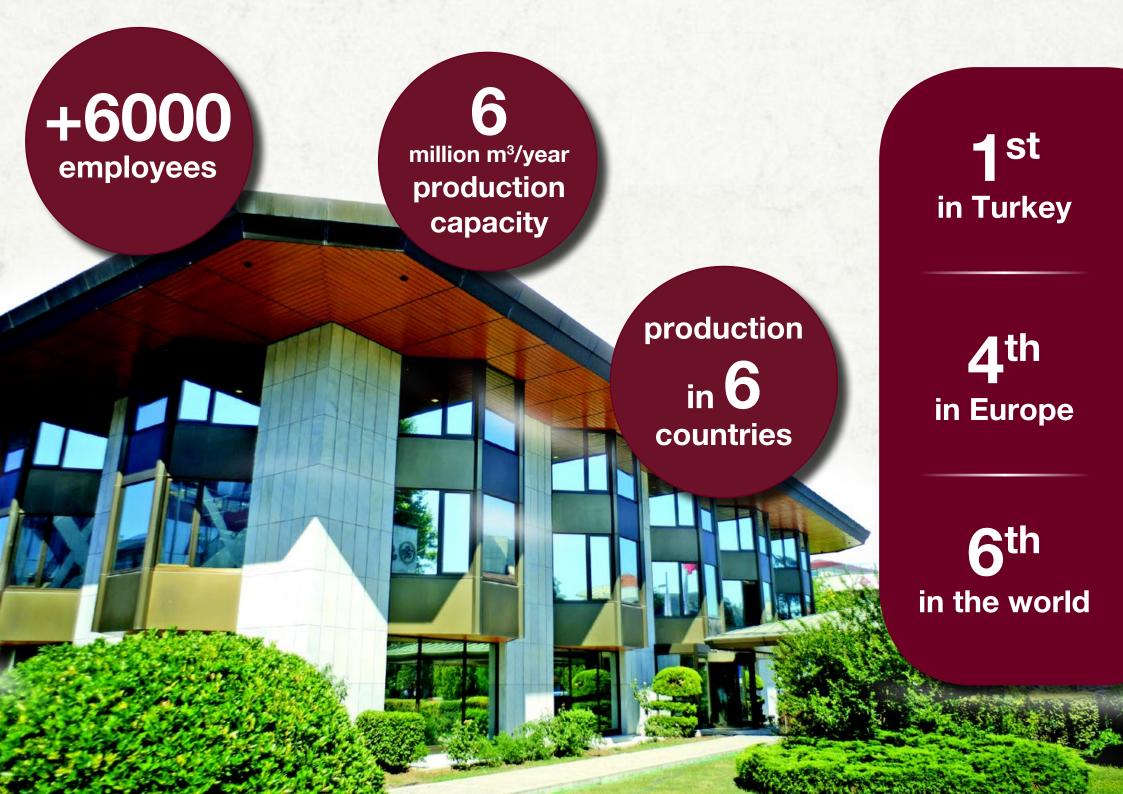
Kastamonu Entegre has become the world's sixth largest company in the wood-based panel industry with its overseas investments extending more than 20 years, and has been among the top four manufacturers in Europe. It is one of the four largest manufacturers in the world with each of its main product groups; namely MDF, chipboard, laminate flooring, and door skin. It undertakes 6% of the world laminate flooring production alone. Not only the Turkey's industry leader with its 30% market share, Kastamonu Entegre, at the same time is by far the leader of the industry with its imports each year to 100 countries in six continents extending from China to America and Australia to Canada.

With its turnover of 1.3 billion dollars and its strength, knowledge and experience in production, it provides employment to more than 6 thousand people in its domestic and foreign production facilities as well as its offices. In its production facilities with a total of 6 million m³/year wood-based panel production capacity, where it caters the requirements of furniture, decoration and construction industries with its MDF and particle board, laminate flooring, worktop and door skin products, it

produces a volume that contributes to the formation of living spaces of 4 500 homes every day. Proud bearer of "The Biggest Turkish Investor of Italy" title, Kastamonu Entegre also happens to be the largest MDF producer and exporter of Russia.

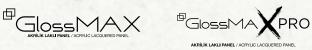
Responding to the demands of its customers, Kastamonu Entegre can produce FSC, CARB2 / EPA Certified products and at E1, E0.5 (1/2), E0, F4Start guality by obtaining wood raw materials from 100% sustainable and renewable sources. In addition, E1 quality production is carried out in all its facilities. "Floorpan" and "Artfloor" are the first Turkish laminate flooring brands that have "Blue Angel" certificate, which shows that environmentally friendly materials are used in production and that the products do not contain any hazardous substances for human health. Acting with the mission of preserving natural balance and contributing to the society, the company is one of the three companies that prepared the sustainability report in the industry. It carries out studies on product and process development, efficiency increase, efficient resource utilization and advanced material technologies in its R&D center in Istanbul, which it has set up to develop technologies of the future.

The company has certifications such as ISO 9001 Quality Management, ISO 45001 Occupational Health and Safety Management, ISO 14001 Environmental Management, ISO 50001 Energy Management, and also the Turquality Certificate. Production is made in conformity with the TSE and European Norms (EN).



About Products

High Gloss Panels are wooden panels with decorative glossy surface obtained by applying glue and UV Acrylic lacquer/Acrylic/ PVC/PET on the surface of melamine faced MDF through various industrial processes using an advanced and unique technology. With the lacquer applied after the chemical contamination of hot coating process providing an excellent adhesion to the melamine coated surface, a surface with a scratch and wear resistance higher than the other glossy surfaces is obtained. Furthermore, the top layer hardened by means of UV rays is also resistant to discoloration by sun light and chemicals. In this way, excellent specular gloss is obtained. This technology provides a solution opening new ways in surface coating, highlighting the natural look and texture of the solid wood, substantially facilitating surface finishing application. High Gloss Panels resistant to wear, impacts and scratching reflects the naturalness of the wood while enriching your living space with specular gloss through different color options. High Gloss Panel Products that can be used in furniture production as the symbol of elegance and quality, ushers in a new age in the sector with its technology maintaining its glossy look for a long time.





Typical Material Composition, 1 m³

Raw Material	Weight, %
Wood Chips	80-90
UMF Glue	9-11
UV Based Chemicals	0-1

The average density of Kastamonu Entegre High Gloss Panel with a thickness of 8-18 mm

The UN CPC code of the product is 3143.

Wood chips type can be varied and mainly sourced from pine, beech, and oak trees.



is 704-770 kg/m³.

Thickness Range 8-18 mm

Dimensions 1220x2800 mm 2100x2800 mm







GLOSSMAX MEDELAMS Technical Specifications

Technical Data	Test Unit		Thickness Range				
Technical Data	Standard	Unit	6 <t≤9< th=""><th>9<t≤12< th=""><th>12<t≤19< th=""></t≤19<></th></t≤12<></th></t≤9<>	9 <t≤12< th=""><th>12<t≤19< th=""></t≤19<></th></t≤12<>	12 <t≤19< th=""></t≤19<>		
Tolerances on Nominal Dimensions -Thickness Compared to Rated Values - Thickness T Relative to Nominal Value	EN 14323	mm		5 / ≥15 to 20 mm ; +0.5 /-0 >20 mm; ± 0.5 - ≥15 to 20 mm ; t _{max} - t _{min}			
Lengt And Width	EN 14323	mm		± 5			
Flatness	EN 14323	mm/m	only for ba	lancd surfaces which t \geq	15mm; ≤ 2		
Edge Damage	EN 14323	mm		≤ 10			
Surface Defects	EN 14323	mm²/m²		points≤ 2			
Surface Defects	EN 14323	mm/m ²		line ≤ 20			
Resistance to Scratching	EN 14323	N		Class B 2≤t<3.5			
Resistance to Cracking	EN 14323	Rating		≥ 3			
Resistance to Staining	EN 14323	Rating		≥ 3			
Gloss	EN 14323	Gloss Unit (GU)		20° min.85			
Cross Cut	EN ISO 2409	Class		0 or 1			
Surface Soundness	EN 311	N/mm ²		≥ 1			
Formaldehyde Release	EN ISO 12460-3	mg/m²h	E0 < 1.75	, E1 ≤ 3,.5 E2, 3,.5 < re	elease ≤ 8		
Mirror Effect	TSE K 479	Observation		Min.6			
Light Fastness (Xenon Arc Lamp)	EN 15187	Scale		ale \ge 4 Blue Wool > 6, * or pigmented products of			

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Note 2: For current TSE document / document scope, it is recommended to contact the relevant sales executive.

Note 3: GLOSSMAX MEDELAMS match all of the technical specifications of the MEDEPANS.

GLOSSMAX PRO MEDELAMS Technical Specifications

Tashuisal Data	Test Unit		Thickness Range				
Technical Data	Standard	Unit	6 <t≤9< th=""><th>9<t≤12< th=""><th>12<t≤19< th=""></t≤19<></th></t≤12<></th></t≤9<>	9 <t≤12< th=""><th>12<t≤19< th=""></t≤19<></th></t≤12<>	12 <t≤19< th=""></t≤19<>		
Tolerances on Nominal Dimensions -Thickness Compared to Rated Values	EN 14323	mm		5 / ≥15 to 20 mm ; +0.5 /-0 >20 mm; ± 0.5			
Thickness T Relative to Nominal Value			<15/	\geq 15 to 20 mm ; t _{max} - t _{min}	≤ 0.6		
Lengt And Width	EN 14323	mm		± 5			
Flatness	EN 14323	mm/m	only for ba	lancd surfaces which $t \ge \frac{1}{2}$	15mm; ≤ 2		
Edge Damage	EN 14323	mm		≤ 10			
Surface Defects	EN 14323	mm²/m²		points≤ 2			
Surface Defects	EN 14323	mm/m ²		line ≤ 20			
Resistance to Scratching	EN 14323	N		Class B 2≤t<3.5			
Resistance to Cracking	EN 14323	Rating		≥ 3			
Resistance to Staining	EN 14323	Rating		≥3			
Gloss	EN 14323	Gloss Unit (GU)		20° min.85			
Cross Cut	EN ISO 2409	Class		0 or 1			
Surface Soundness	EN 311	N/mm ²		≥ 1			
Formaldehyde Release	EN ISO 12460-3	mg/m²h	E0 < 1.75	, E1 ≤ 3,.5 E2, 3,.5 < re	elease ≤ 8		
Mirror Effect	TSE K 479	Observation		Min.6			
Light Fastness (Xenon Arc Lamp)	EN 15187	Scale		ale \ge 4 Blue Wool > 6, * or pigmented products of			

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Note 3: GLOSSMAX PRO MEDELAMS match all of the technical specifications of the MEDEPANS.

MATTPLUS MEDELAMS Technical Specifications

Taskaisal Data	Test			Thickness Range	
Technical Data	Standard	Unit	6 <t≤9< th=""><th>9<t≤12< th=""><th>12<t≤19< th=""></t≤19<></th></t≤12<></th></t≤9<>	9 <t≤12< th=""><th>12<t≤19< th=""></t≤19<></th></t≤12<>	12 <t≤19< th=""></t≤19<>
Tolerances on Nominal Dimensions -Thickness Compared to Rated Values -	EN 14323	mm	<1	5 / ≥15 to 20 mm ; +0.5 /- >20 mm; ± 0.5 -	0.3;
Thickness T Relative to Nominal Value			<15	/ ≥15 to 20 mm ; t_{max} - t_{min}	≤ 0.6
Lengt And Width	EN 14323	mm		± 5	
Flatness	EN 14323	mm/m	only for ba	lancd surfaces which t \geq	15mm; ≤ 2
Edge Damage	EN 14323	mm		≤ 10	
Surface Defects	EN 14323	mm²/m²		points≤ 2	
Surface Defects	EN 14323	mm/m ²		line ≤ 20	
Resistance to Scratching	EN 14323	N		Class B 2≤t<3.5	
Resistance to Cracking	EN 14323	Rating		≥ 3	
Resistance to Staining	EN 14323	Rating		≥3	
Cross Cut	EN ISO 2409	Class		0 or 1	
Surface Soundness	EN 311	N/mm ²		≥ 1	
Formaldehyde Release	EN ISO 12460-3	mg/m²h	E0 < 1.75	5, E1 ≤ 3,.5 E2, 3,.5 < re	elease \leq 8
Mirror Effect	TSE K 479	Observation		Min.6	
Light Fastness (Xenon Arc Lamp)	EN 15187	Scale		ale \geq 4 Blue Wool > 6, $\frac{1}{2}$	

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Note 3: MATTPLUS MEDELAMS match all of the technical specifications of the MEDEPANS.

EVOGLOSS Technical Specifications

Taskyisel Data	Test	I I with		Thickness Range			
Technical Data	Standard		Unit	t<15	15≤t≤20		
Thickness Compared to Rated Values -Thickness T Within The Board	EN 14323		mm	+0.5, t _{max} - t _m			
Lengt And Width	EN 14323		mm	±	5		
Flatness	EN 14323		mm/m	-	≤2		
Density	EN 323		%	±	7		
Surface Defects	EN 14323		m²	4 pieces in 1 m ² b 3 pieces in 1 m ² be 2 pieces in 1 m ² be 1 piece in 1 m ² be	etween 2.5 - 6 mm between 6-10 mm		
Surface Resistance to Micro-Scratch	CEN/TS 16611(Method A)	c	% change	≤ '	10		
Resistance to Scratching	EN 15186 (Method B)	N		≥ 0.5			
Surface Resistance To Dry Temperature (70°)	EN 12722	Rating		5			
Light Fastness (Xenon Arc Lamp)	EN 15187	Scale		Grey scale ≥4/5 Blue wool scale >6			
Mirror Effect	TSE K 479	Observation		min 6			
Gloss (60°)	EN 13722	Glo	ss Unit (GU)	7	0		
Color Difference (By Referance Sample)	EN 13721	Δ	E (L, a, b)	<	1		
Resistance to Cold Liquids			(16 h)				
Currisse Desistence to Met Temperature (70.00)	EN 10701	Deting	Pet	5	5		
Surface Resistance to Wet Temperature (70 °C)	EN 12721	Rating	Pvc&Pvc+Pad	4			
Formaldehyde Release	EN ISO 12460-3		mg/m²h	E0 < 1.75, E1 ≤ 3.5 E	$2; 3.5 < release \le 8$		

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ACRYLIC PANEL Technical Specifications

Taskaisel Data	Test	11	Thickness Range			
Technical Data	Standard	Unit	t<15 15≤t≤20			
Thickness Compared to Rated Values	EN 14323	mm	+0.5/-0.3 $t_{max} - t_{min} \le 0.6$			
Lengt and Width	EN 14323	mm	± 5			
Flatness	EN 14323	mm/m	_ ≤ 2 (only for balanced surfaces)			
Surface Deffects	EN 14323	m²	4 pieces in 1 m ² between 0-2.5 mm 3 pieces in 1 m ² between 2.5-6 mm 2 pieces in 1 m ² between 6-10 mm 1 piece in 1 m ² between 10-15 mm			
Surface Resistance to Micro-Scratch	CEN/TS 16611 (Method A)	% change	≤ 10			
Resistance to Scratching	EN 15186 (Method B)	Ν	≥1			
Surface Resistance To Dry Temperature (70°)	EN 12722	Rating	5			
Light Fastness (Xenon Arc Lamp)	EN 15187	Scale	Grey scale ≥ 4/5 Blue wool scale > 6			
Mirror Effect	TSE K 479	Observation	min. 6			
Gloss (60°)	EN 13722	Gloss Unit (GU)	70			
Color Difference (By Referance Sample)	EN 13721	∆E (L, a, b)	<1			
Resistance to Cold Liquids	EN 12720+A1	Rating	min. 3 (16 h)			
Surface Resistance to Wet Temperature (70 °C)	EN 12721	Rating	5			
Formaldehyde Release	EN ISO 12460-3	mg/m²h	E0 < 1.75 E1 \leq 3.5 E2; 3.5 < release \leq 8			

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INDUSTRIAL ACRYLIC PANEL Technical Specifications

Technical Data	Test Standard	Unit	Thickness Range 15≤t≤20
Thickness Compared to Rated Values -Thickness T Within The Board	EN 14323	mm	+0.5/-0.3 $t_{max} - t_{min} \le 0.6$
Lengt and Width	EN 14323	mm	± 5
Flatness	EN 14323	mm/m	≤2
Surface Resistance to Micro-Scratch	KEAS Specific	% change	70-100
Resistance to Scratching	KEAS Specific	N	0.1-0.5
Surface Resistance To Dry Temperature (70°)	EN 12722	Rating	5
Light Fastness (Xenon Arc Lamp)	EN 15187	Scale	Grey scale ≥ 4/5 Blue wool scale > 6
Mirror Effect	TSE K 479	Observation	min. 6
Gloss (60°)	EN 13722	Gloss Unit (GU)	70
Color Difference (By Referance Sample)	EN 13721	∆E (L, a, b)	<1
Resistance to Cold Liquids	KEAS Specific	Rating	1-3 (16 h)
Surface Resistance to Wet Temperature (70 °C)	EN 12721	Rating	5
			E0 < 1.75
Formaldehyde Release	EN ISO 12460-3	mg/m²h	1.75 < E1 ≤ 3.5
			3.5 < E2 ≤ 8

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As Kastamonu Entegre, we adopt an ethical, transparent, equitable and accountable management approach in the awareness of our environmental, economic and social contributions and impacts.

We engage in activities that strengthen our corporate structure, and we take sustainable development-based growth as the basis, in line with our target of becoming a global brand.

In determining our strategies, we always consider the expectations and opinions of our stakeholders and create a strong bond by ensuring their satisfaction. We conduct practices with an employee-oriented perspective that takes into account their expectations and needs, thereby creating an efficient and peaceful working environment. Besides ensuring the health and safety of all our employees, we also contribute to their training and development activities.

Pursuant to our responsible purchasing approach, we perform our raw material supply processes based on sustainable forest management. We support initiatives related to this model and contribute positively to their development.

Our innovation and R&D processes enable us to develop and manufacture products that create high quality, environmentally friendly and healthy living spaces using state-of-the-art technology.

We respect human rights and encourage equal opportunity.

We pay regard to energy and water efficiency; we implement renewable and innovative energy projects accordingly.

We contribute to the welfare of the local community by creating employment and economic value in our geographic locations.

KASTAMONU ENTEGRE Sustainability Policy

>> LCA Information

Declared Unit	 1 m³ of GLOSSMAX MEDELAM with an average density 770 kg/m³ 1 m³ of GLOSSMAX PRO MEDELAM with an average density 768 kg/m³ 1 m³ of MATTPLUS MEDELAM with an average density 765 kg/m³ 1 m³ of EVOGLOSS with an average density 720 kg/m³ 1 m³ of ACRYLIC PANEL with an average density 704 kg/m³ 1 m³ of INDUSTRIAL ACRYLIC PANEL with an average density 704 kg/m³
Time Representativeness	2019
Database(s) and	TLCID ver. 1.0 (Turkish Lifecycle Inventory

The inventory for the LCA study is based on the 2019 production figures for High Gloss Panels products by Kastamonu Entegre production plants in Gebze, Adana and Russia.

This EPD's system boundary is cradle to gate. The system boundary covers A1 - A3 product stages, C1 - C4 end of life and D stages.

Database(s) and	TLCID ver. 1.0 (Turkish Lifecycle Inventory
LCA Software Used	Database), Ecoinvent 3.6, SimaPro 9.1

	Product Stage		Pro	rcution cess age	Use Stage					End of Life Stage				Benefits and Loads		
Raw Material Supply	Transport	Manufacturing	Transport	Construction Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational Energy Use	Operational Water Use	Deconstruction, demolition	Transport	Waste Processing	Disposal	Future reuse, recycling or energy recovery potentials
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Х	x	х	ND	ND	ND	ND	ND	ND	ND	ND	ND	х	x	х	Х	X

X = Included in LCA, ND = Not Declared

System Boundary



A1: Raw Material Supply

Kastamonu Entegre's productions start from wood. The company supplies its raw materials necessary from suitable forests. Raw material supply includes raw material extraction/preparation and pre-treatment processes before production.



A2: Transportation

Transport is relevant for delivery of raw materials and other materials to the plant and the transport of materials within the plant. Transport of raw materials to production sites is taken as the weight average values for transport from raw materials supplier in 2019.

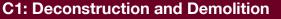


A3: Manufacturing

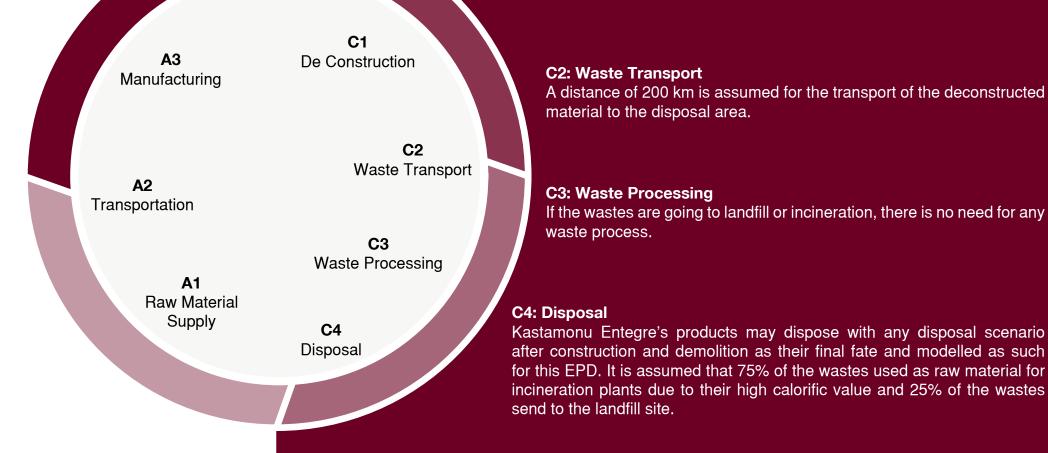
Kastamonu Entegre's manufacturing flows are given as below respectively. Some process can be vary according to production plant.

- 1 Debarking logs
- 2 Chipping
- 3 Refining wood fibres
- 4 Gluing fibres
- 5 Drying fibres
- 6 Mat formation

- 7 Pressing
- 8 Cutting & trimming
- 9 Cooling
- 10 Sanding
- 11 Quality control
- 12 Storage



For deconstruction stage, 0.323 MJ electricity use per kg of material was assumed (Gervasio et al., 2018)



D Stage (Benefits and Load)

For benefits and loads beyond, a calorific value of 18.6 MJ per kg of High Gloss Panel was assumed (Günther et al., 2012) to calculate the amount of avoided electicity production from heat. In this stage, the production efficiency of the plant which electricity generation from incineration is assumed as %20.



Production Plants and Allocations

Kastamonu Entegre has production facilities for wood-based products in Turkey, Italy, Russia, Romania, and Bulgaria. Raw material contents are modeled for each product and each factory. Water consumption, energy consumption and raw material transportation were weighted according to 2019 production figures.

In addition, hazardous and non-hazardous waste amounts were also allocated from the 2019 total waste generation.

Packaging

Products by Kastamonu Entegre is delivered en users in film plastic packaging, corrugated board, or composite packaging. The packaging of the final product is included in the LCA.

Cut-Off Criteria

%1 cut-off applied. Data for elementary flows to and from the product system contributing to a minimum of 99% of the declared environmental impacts have been included.

REACH

The product contains formaldehyde which is a substance of very high concern (SVHC) and is subject to authorization under the REACH Regulation. For details, test results are provided in the additional information section and table of technical spesifications.

LCA Modelling, Calculation and Data Quality

The results of the LCA with the indicators as per EPD requirement are given in the LCA result tables. All energy calculations were obtained using Cumulative Energy Demand (LHV) methodology, while fresh water use is calculated with selected inventory flows in SimaPro according to the PCR.

There are no co-product allocations within the LCA study underlying this EPD.

The SimaPro 9.1 LCA software and the Ecoinvent 3.6 LCA database were used to calculate the environmental impacts. The regional energy datasets were used for all energy calculations.

Raw materials, energy and water consumption, waste and material and product transport data is collected from Kastamonu Entegre. All primary data collected from Kastamonu Entegre is for the period year of 2019.

Geographical Scope

The geographical scope of this EPD is global. The assumptions of the end of life (C modules) and benefit (D module) stages can be referred to as the global.

LCA Results

		Environmenta	al Impacts for 1 m ³ of	GLOSSMAX MEDEL	_AM						
Impact Category	Unit	Unit A1-A3 C1			C3	C4	D				
GWP - Fossil	- Fossil kg CO ₂ eq		40.7	14.0	0	6.67	-427				
GWP - Biogenic	kg CO ₂ eq	-1168	0.371	0.010	0	863	-1.97				
GWP - Luluc	kg CO ₂ eq	0.95	0.388	0.004	0	0.002	-0.855				
GWP - Total	kg CO ₂ eq	-614	41.4	14.0	0	870	-430				
ODP	kg CFC-11 eq	94.8E-6	1.15E-6	3.29E-6	0	1.25E-6	-17.8E-6				
AP	mol H+ eq	4.89	0.268	0.059	0	0.194	-2.13				
EP - Freshwater	kg PO ₄ eq	58.6E-3	42.9E-3	991E-6	0	3.93E-3	-211E-3				
EP - Marine	kg N eq	942E-3	43.5E-3	17.9E-3	0	161E-3	-406E-3				
EP - Terrestrial	mol N eq	13.7E+0	394E-3	196E-3	0	1.02E+0	-4.08E+0				
POCP	kg NMVOC	3.009	0.108	0.063	0	0.273	-1.09				
ADPE	kg Sb eq	3.32E-3	98.0E-6	239E-6	0	45.2E-6	-528E-6				
ADPF	MJ	9886	447	218	0	96.1	-5540				
WDP	m³ depriv.	694	19.0	0.707	0	2.05	-67.1				
M	disease inc. kBq U-235 eq			disease inc.	disease inc.	48.8E-6	1.14E-6	1.27E-6	0	1.75E-6	-15.6E-6
IR				25.27	0.604	1.11	0	0.510	-62.5		
ETP - FW	CTUe	6720	391	173	0	166	-7507				
HTTP - C	CTUh	4.99E-6	7.19E-9	4.27E-9	0	171E-9	-85.8E-9				
HTTP - NC	CTUh	4.56E-6	346E-9	198E-9	0	582E-9	-3.62E-6				
SQP	Pt	88958	25.8	249	0	129	-867				
Acronyms	transformation, ODF marine, EP-terrestri resources, WDP: W	: Ozone layer depletion al: Eutrophication ter ater scarcity, PM: Re	on, AP: Acidification terr restrial, POCP: Photoc espiratory inorganics - p	estrial and freshwater, E chemical oxidation, ADF	P-freshwater: Eutro PE: Abiotic depletion ponising radiation, ET	c, GWP-luluc: Climate c phication freshwater, EP- n - elements, ADPF: Ab P-FW: Ecotoxicity freshv	marine: Eutrophication biotic depletion - fossi				
Legend		upply, A2: Transport, he System Boundary.		: De-Construction, C2:	Waste Transport, C	3: Waste Processing, C4	: Disposal, D: Benefit				
Biogenic Carbon Content			Unit			A1-A3					
Biogenic carbon content ir	n product		kg C / m³ pro	duct		319					

		Resource	Use for 1 m ³ of GLC	DSSMAX MEDELAM			
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	13919	107	2.74	0	4.05	-630
PERM	MJ	0	0	0	0	0	0
PERT	MJ	13919	107	2.74	0	4.05	-630
PENRE	MJ	9887	447	218	0	96.1	-5539
PENRM	MJ	0	0	0	0	0	0
PENRT	MJ	9887	447	218	0	96.1	-5539
SM	kg	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0
FW	m ³	2.01	0.170	0.045	0	0.675	-1.78
		Waste & Outp	out Flows for 1 m ³ of	GLOSSMAX MEDEI	LAM		
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	0.466	0	0	0	0	0
NHWD	kg	3.33	0	0	0	0	0
RWD	kg	0	0	0	0	0	0
CRU	kg	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0
MER	kg	56.1	0	0	578	0	0
EE (Electrical)	MJ	0	0	0	0	2167	0
EE (Thermal)	MJ	0	0	0	0	0	0

		Environmental I	mpacts for 1 m ³ of Gl	LOSSMAX PRO MEI	DELAM		
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
GWP - Fossil	kg CO ₂ eq	572	40.6	14.0	0	6.65	-426
GWP - Biogenic	kg CO ₂ eq	-1169	0.370	0.010	0	861	-1.96
GWP - Luluc	kg CO ₂ eq	0.96	0.387	0.004	0	0.002	-0.853
GWP - Total	kg CO ₂ eq	-596	41.3	14.0	0	867	-429
ODP	kg CFC-11 eq	95.3E-6	1.15E-6	3.28E-6	0	1.24E-6	-17.7E-6
AP	mol H+ eq	4.96	0.267	0.059	0	0.194	-2.13
EP - Freshwater	kg PO₄ eq	63.8E-3	42.8E-3	988E-6	0	3.92E-3	-210E-3
EP - Marine	kg N eq	958E-3	43.4E-3	17.8E-3	0	160E-3	-405E-3
EP - Terrestrial	mol N eq	13.9E+0	393E-3	195E-3	0	1.02E+0	-4.07E+0
POCP	kg NMVOC	3.08	0.108	0.063	0	0.272	-1.09
ADPE	kg Sb eq	3.51E-3	97.7E-6	238E-6	0	45.1E-6	-526E-6
ADPF	MJ	10424	446	217	0	95.9	-5525
WDP	m ³ depriv.	708	19.0	0.705	0	2.04	-67.0
PM	disease inc.	49.5E-6	1.14E-6	1.26E-6	0	1.75E-6	-15.5E-6
IR	kBq U-235 eq	26.59	0.602	1.11	0	0.509	-62.4
ETP - FW	CTUe	6953	390	173	0	166	-7488
HTTP - C	CTUh	4.99E-6	7.17E-9	4.26E-9	0	171E-9	-85.6E-9
HTTP - NC	CTUh	4.70E-6	346E-9	197E-9	0	581E-9	-3.61E-6
SQP	Pt	89043	25.7	249	0	129	-865
Acronyms	transformation, ODF marine, EP-terrestri resources, WDP: W	: Ozone layer depletic al: Eutrophication ter ater scarcity, PM: Re	on, AP: Acidification terr restrial, POCP: Photoc espiratory inorganics - p	estrial and freshwater, I chemical oxidation, AD	EP-freshwater: Eutrop PE: Abiotic depletion onising radiation, ET	c, GWP-luluc: Climate c ohication freshwater, EP- n - elements, ADPF: Ab P-FW: Ecotoxicity freshv	marine: Eutrophication biotic depletion - foss
Legend		upply, A2: Transport, he System Boundary.	A3: Manufacturing, C1	: De-Construction, C2:	Waste Transport, C3	3: Waste Processing, C4	: Disposal, D: Benefit
Biogenic Carbon Content			Unit			A1-A3	
Biogenic carbon content ir	n product		kg C / m³ pro	duct		319	

		Resource U	se for 1 m³ of GLOS	SMAX PRO MEDELA	M		
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	13940	107	2.73	0	4.04	-628
PERM	MJ	0	0	0	0	0	0
PERT	MJ	13940	107	2.73	0	4.04	-628
PENRE	MJ	10425	446	217	0	95.9	-5525
PENRM	MJ	0	0	0	0	0	0
PENRT	MJ	10425	446	217	0	95.9	-5525
SM	kg	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0
FW	m ³	2.05	0.170	0.045	0	0.673	-1.77
		Waste & Output	Flows for 1 m ³ of GL	OSSMAX PRO MED	ELAM		
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	0.466	0	0	0	0	0
NHWD	kg	3.33	0	0	0	0	0
RWD	kg	0	0	0	0	0	0
CRU	kg	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0
MER	kg	56.1	0	0	576	0	0
EE (Electrical)	MJ	0	0	0	0	2160	0
EE (Thermal)	MJ	0	0	0	0	0	0

		Environment	al Impacts for 1 m ³ of	f MATTPLUS MEDEL	AM		
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
GWP - Fossil	kg CO ₂ eq	554	40.4	13.9	0	6.62	-424
GWP - Biogenic	kg CO ₂ eq	-1168	0.369	0.010	0	857	-1.95
GWP - Luluc	kg CO ₂ eq	0.952	0.385	0.004	0	0.002	-0.850
GWP - Total	kg CO ₂ eq	-614	41.2	13.9	0	864	-427
ODP	kg CFC-11 eq	94.8E-6	1.14E-6	3.27E-6	0	1.24E-6	-17.6E-6
AP	mol H+ eq	4.87	0.266	0.058	0	0.193	-2.12
EP - Freshwater	kg PO₄ eq	61.1E-3	42.6E-3	984E-6	0	3.90E-3	-210E-3
EP - Marine	kg N eq	940E-3	43.2E-3	17.8E-3	0	160E-3	-404E-3
EP - Terrestrial	mol N eq	13.7E+0	392E-3	194E-3	0	1.01E+0	-4.05E+0
POCP	kg NMVOC	3.00	0.107	0.062	0	0.271	-1.08
ADPE	kg Sb eq	3.32E-3	97.4E-6	237E-6	0	44.9E-6	-524E-6
ADPF	MJ	9913	444	216	0	95.5	-5504
WDP	m ³ depriv.	698	18.9	0.703	0	2.04	-66.7
РМ	disease inc.	48.7E-6	1.13E-6	1.26E-6	0	1.74E-6	-15.5E-6
IR	kBq U-235 eq	26.82	0.600	1.101	0	0.507	-62.1
ETP - FW	CTUe	6719	389	172	0	165	-7459
HTTP - C	CTUh	4.98E-6	7.14E-9	4.24E-9	0	170E-9	-85.3E-9
HTTP - NC	CTUh	4.55E-6	344E-9	196E-9	0	579E-9	-3.60E-6
SQP	Pt	88963	25.6	248	0	128	-861
Acronyms	transformation, ODF marine, EP-terrestri resources, WDP: W	2: Ozone layer depletion al: Eutrophication ter dater scarcity, PM: Re	on, AP: Acidification terr restrial, POCP: Photoc espiratory inorganics - p	estrial and freshwater, E chemical oxidation, ADF	P-freshwater: Eutro PE: Abiotic depletion Inising radiation, ET	c, GWP-luluc: Climate c phication freshwater, EP- n - elements, ADPF: Ak 'P-FW: Ecotoxicity freshv	marine: Eutrophication piotic depletion - fossi
Legend		upply, A2: Transport, he System Boundary.		: De-Construction, C2:	Waste Transport, C	3: Waste Processing, C4	: Disposal, D: Benefits
Biogenic Carbon Content			Unit			A1-A3	
Biogenic carbon content ir	n product		kg C / m³product			319	

		Resource	e Use for 1 m³ of MA	TTPLUS MEDELAM			
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	13928	106	2.72	0	4.03	-626
PERM	MJ	0	0	0	0	0	0
PERT	MJ	13928	106	2.72	0	4.03	-626
PENRE	MJ	9914	444	216	0	95.5	-5503
PENRM	MJ	0	0	0	0	0	0
PENRT	MJ	9914	444	216	0	95.5	-5503
SM	kg	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0
FW	m ³	2.00	0.169	0.045	0	0.671	-1.76
		Waste & Out	out Flows for 1 m ³ of	MATTPLUS MEDEL	AM		
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	0.466	0	0	0	0	0
NHWD	kg	3.33	0	0	0	0	0
RWD	kg	0	0	0	0	0	0
CRU	kg	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0
MER	kg	56.1	0	0	574	0	0
EE (Electrical)	MJ	0	0	0	0	2153	0
EE (Thermal)	MJ	0	0	0	0	0	0

		Enviror	mental Impacts for 1	m ³ of EVOGLOSS				
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D	
GWP - Fossil	kg CO ₂ eq	278	38.0	13.1	0	6.23	-399	
GWP - Biogenic	kg CO ₂ eq	-1225	0.347	0.010	0	807	-1.84	
GWP - Luluc	kg CO ₂ eq	1.48	0.363	0.004	0	0.002	-0.800	
GWP - Total	kg CO ₂ eq	-946	38.7	13.1	0	813	-402	
ODP	kg CFC-11 eq	40.1E-6	1.07E-6	3.08E-6	0	1.17E-6	-16.6E-6	
AP	mol H+ eq	1.92	0.250	0.055	0	0.182	-2.00	
EP - Freshwater	kg PO₄ eq	95.5E-3	40.1E-3	927E-6	0	3.67E-3	-197E-3	
EP - Marine	kg N eq	413E-3	40.7E-3	16.7E-3	0	150E-3	-380E-3	
EP - Terrestrial	mol N eq	5.56E+0	369E-3	183E-3	0	954E-3	-3.81E+0	
POCP	kg NMVOC	1.33	0.101	0.059	0	0.255	-1.02	
ADPE	kg Sb eq	1.39E-3	91.6E-6	223E-6	0	42.2E-6	-493E-6	
ADPF	MJ	4492	418	204	0	89.9	-5180	
WDP	m ³ depriv.	323	17.8	0.661	0	1.92	-62.8	
РМ	disease inc.	28.1E-6	1.07E-6	1.18E-6	0	1.64E-6	-14.6E-6	
IR	kBq U-235 eq	10.8	0.564	1.04	0	0.477	-58.5	
ETP - FW	CTUe	4691	366	162	0	155	-7020	
HTTP - C	CTUh	2.02E-6	6.72E-9	3.99E-9	0	160E-9	-80.2E-9	
HTTP - NC	CTUh	3.14E-6	324E-9	185E-9	0	545E-9	-3.39E-6	
SQP	Pt	96448	24.1	233	0	121	-811	
Acronyms	transformation, ODF marine, EP-terrestri resources, WDP: W	2: Ozone layer depletion al: Eutrophication ter Vater scarcity, PM: Re	on, AP: Acidification terr restrial, POCP: Photoc espiratory inorganics - I	estrial and freshwater, E chemical oxidation, ADF	P-freshwater: Eutrop PE: Abiotic depletion onising radiation, ET	c, GWP-luluc: Climate c ohication freshwater, EP- n - elements, ADPF: At P-FW: Ecotoxicity freshy	marine: Eutrophication biotic depletion - foss	
Legend		upply, A2: Transport, he System Boundary.		: De-Construction, C2:	Waste Transport, C	3: Waste Processing, C4	: Disposal, D: Benefit	
Biogenic Carbon Content	t		Unit			A1-A3		
Biogenic carbon content i	in product		kg C / m ³ pro	duct		334		

		Res	source Use for 1 m ³ o	of EVOGLOSS			
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	15475	100	2.56	0	3.79	-589
PERM	MJ	0	0	0	0	0	0
PERT	MJ	15475	100	2.56	0	3.79	-589
PENRE	MJ	4493	418	204	0	89.9	-5180
PENRM	MJ	0	0	0	0	0	0
PENRT	MJ	4493	418	204	0	89.9	-5180
SM	kg	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0
FW	m ³	1.79	0.159	0.042	0	0.631	-1.66
		Waste 8	& Output Flows for 1	m ³ of EVOGLOSS			
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	0.054	0	0	0	0	0
NHWD	kg	10.1	0	0	0	0	0
RWD	kg	0	0	0	0	0	0
CRU	kg	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0
MER	kg	108	0	0	540	0	0
EE (Electrical)	MJ	0	0	0	0	2023	0
EE (Thermal)	MJ	0	0	0	0	0	0

		Environme	ental Impacts for 1 m	³ of ACRYLIC PANEL	-		
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
GWP - Fossil	kg CO ₂ eq	269	37.2	12.8	0	6.09	-391
GWP - Biogenic	kg CO ₂ eq	-1196	0.339	0.009	0	789	-1.80
GWP - Luluc	kg CO ₂ eq	1.60	0.355	0.004	0	0.002	-0.782
GWP - Total	kg CO ₂ eq	-925	37.9	12.8	0	795	-393
ODP	kg CFC-11 eq	37.2E-6	1.05E-6	3.01E-6	0	1.14E-6	-16.2E-6
AP	mol H+ eq	2.00	0.245	0.054	0	0.178	-1.95
EP - Freshwater	kg PO₄ eq	109E-3	39.2E-3	906E-6	0	3.59E-3	-193E-3
EP - Marine	kg N eq	423E-3	39.8E-3	16.3E-3	0	147E-3	-372E-3
EP - Terrestrial	mol N eq	5.65E+0	361E-3	179E-3	0	933E-3	-3.73E+0
POCP	kg NMVOC	1.34	0.099	0.058	0	0.249	-1.00
ADPE	kg Sb eq	1.41E-3	89.6E-6	218E-6	0	41.3E-6	-482E-6
ADPF	MJ	4276	409	199	0	87.9	-5065
WDP	m ³ depriv.	332	17.4	0.647	0	1.87	-61.4
РМ	disease inc.	28.2E-6	1.04E-6	1.16E-6	0	1.60E-6	-14.3E-6
IR	kBq U-235 eq	10.8	0.552	1.01	0	0.466	-57.2
ETP - FW	CTUe	4760	358	158	0	152	-6864
HTTP - C	CTUh	2.02E-6	6.57E-9	3.91E-9	0	157E-9	-78.5E-9
HTTP - NC	CTUh	3.20E-6	317E-9	181E-9	0	532E-9	-3.31E-6
SQP	Pt	94237	23.6	228	0	118	-793
Acronyms	transformation, ODF marine, EP-terrestri resources, WDP: W	: Ozone layer depletion al: Eutrophication ter ater scarcity, PM: Re	on, AP: Acidification terr restrial, POCP: Photoc espiratory inorganics - I	estrial and freshwater, E chemical oxidation, ADF	P-freshwater: Eutrop PE: Abiotic depletion onising radiation, ET	c, GWP-luluc: Climate c ohication freshwater, EP- n - elements, ADPF: Ak P-FW: Ecotoxicity freshy	marine: Eutrophication biotic depletion - foss
Legend		upply, A2: Transport, he System Boundary.		: De-Construction, C2:	Waste Transport, C	3: Waste Processing, C4	: Disposal, D: Benefit
Biogenic Carbon Content			Unit			A1-A3	
Biogenic carbon content i	n product		kg C / m³ pro	duct		326	

		Resou	irce Use for 1 m ³ of <i>i</i>	ACRYLIC PANEL			
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	15160	97.8	2.51	0	3.70	-576
PERM	MJ	0	0	0	0	0	0
PERT	MJ	15160	97.8	2.51	0	3.70	-576
PENRE	MJ	4277	409	199	0	87.9	-5064
PENRM	MJ	0	0	0	0	0	0
PENRT	MJ	4277	409	199	0	87.9	-5064
SM	kg	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0
FW	m ³	1.84	0.156	0.041	0	0.617	-1.62
		Waste & C	Dutput Flows for 1 m ²	³ of ACRYLIC PAN	EL		
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	0.053	0	0	0	0	0
NHWD	kg	11.1	0	0	0	0	0
RWD	kg	0	0	0	0	0	0
CRU	kg	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0
MER	kg	107	0	0	528	0	0
EE (Electrical)	MJ	0	0	0	0	1980	0
EE (Thermal)	MJ	0	0	0	0	0	0

		Environmental In	npacts for 1 m ³ of INE	OUSTRIAL ACRYLIC	PANEL		
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
GWP - Fossil	kg CO ₂ eq	279	37.2	12.8	0	6.09	-391
GWP - Biogenic	kg CO ₂ eq	-1192	0.339	0.009	0	789	-1.80
GWP - Luluc	kg CO ₂ eq	1.55	0.355	0.004	0	0.002	-0.782
GWP - Total	kg CO ₂ eq	-911	37.9	12.8	0	795	-393
ODP	kg CFC-11 eq	39.4E-6	1.05E-6	3.01E-6	0	1.14E-6	-16.2E-6
AP	mol H+ eq	2.01	0.245	0.054	0	0.178	-1.95
EP - Freshwater	kg PO ₄ eq	107E-3	39.2E-3	906E-6	0	3.59E-3	-193E-3
EP - Marine	kg N eq	424E-3	39.8E-3	16.3E-3	0	147E-3	-372E-3
EP - Terrestrial	mol N eq	5.67E+0	361E-3	179E-3	0	933E-3	-3.73E+0
POCP	kg NMVOC	1.36	0.099	0.058	0	0.249	-1.00
ADPE	kg Sb eq	1.54E-3	89.6E-6	218E-6	0	41.3E-6	-482E-6
ADPF	MJ	4505	409	199	0	87.9	-5065
WDP	m ³ depriv.	333	17.4	0.647	0	1.87	-61.4
РМ	disease inc.	28.5E-6	1.04E-6	1.16E-6	0	1.60E-6	-14.3E-6
IR	kBq U-235 eq	11.4	0.552	1.01	0	0.466	-57.2
ETP - FW	CTUe	5114	358	158	0	152	-6864
HTTP - C	CTUh	2.04E-6	6.57E-9	3.91E-9	0	157E-9	-78.5E-9
HTTP - NC	CTUh	3.29E-6	317E-9	181E-9	0	532E-9	-3.31E-6
SQP	Pt	94028	23.6	228	0	118	-793
Acronyms	transformation, ODF marine, EP-terrestri resources, WDP: W	2: Ozone layer depletion al: Eutrophication ter dater scarcity, PM: Re	on, AP: Acidification terr restrial, POCP: Photoc spiratory inorganics - p	estrial and freshwater, I chemical oxidation, AD	EP-freshwater: Eutrop PE: Abiotic depletion onising radiation, ET	c, GWP-luluc: Climate c ohication freshwater, EP- n - elements, ADPF: Ab P-FW: Ecotoxicity freshv	marine: Eutrophication piotic depletion - foss
Legend		upply, A2: Transport, he System Boundary.	A3: Manufacturing, C1	: De-Construction, C2:	Waste Transport, C3	3: Waste Processing, C4	: Disposal, D: Benefit
Biogenic Carbon Content			Unit			A1-A3	
Biogenic carbon content ir	n product		kg C / m ³ product			325	

		Resource Us	e for 1 m³ of INDUS ⁻	TRIAL ACRYLIC PAN	NEL		
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	15122	97.8	2.51	0	3.70	-576
PERM	MJ	0	0	0	0	0	0
PERT	MJ	15122	97.8	2.51	0	3.70	-576
PENRE	MJ	4506	409	199	0	87.9	-5064
PENRM	MJ	0	0	0	0	0	0
PENRT	MJ	4506	409	199	0	87.9	-5064
SM	kg	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0
FW	m ³	1.87	0.156	0.041	0	0.617	-1.62
		Waste & Output I	Flows for 1 m³ of IND	USTRIAL ACRYLIC	PANEL		
Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	0.054	0	0	0	0	0
NHWD	kg	10.7	0	0	0	0	0
RWD	kg	0	0	0	0	0	0
CRU	kg	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0
MER	kg	108	0	0	528	0	0
EE (Electrical)	MJ	0	0	0	0	1980	0
EE (Thermal)	MJ	0	0	0	0	0	0

Additional Informations

For more information about Kastamonu Entegre and its products



Scan or Click!

VOC Emissions

Testing Laboratory: RISE Research Institutes of Sweden AB **Test Reference:** For updated test reference ID, it is recommended to contact the relevant sales executive.

Emission measurements according to SS-EN ISO 16000-9:2006 (Indoor air – Part 9: Determination of the emission of volatile organic compounds from building products and furnishing – Emission test chamber method) after 28 days regarding volatile organic compounds (VOC and VVOC/SVOC), carcinogenic substances (VOC-substances, EU Regulation No 1272/2008 Annex VI, cat 1A and 1B) formaldehyde and acetaldehyde (ISO 16000-3:2011). Evaluation according to EN 16516:2017 (EU-LCI values).

Version History :

V1.1 - 10.06.2021 - Product name changed. V1.2 - 01.10.2022 - Company logo and Eco Platform logo updated.

With all technical details and 3D images, Kastamonu Entegre products are available on your mobile phone or tablet. Download IDS 3D (Interior Design Studio 3D) application and experience reality.







References

/GPI/ General Programme Instructions of the International EPD® System. Version 3.0

/ISO 9001/ Quality management systems - Requirements

/ISO 14001/ Enviroment Management System- Requirements

/EN 15804:2012+A2:2019/ Sustainability of construction works - Environmental Product Declarations — Core rules for the product category of construction products

/ISO 14020:2000/ Environmental labels and declarations — General principles

/ISO 14025/ ISO 14025:2006 Preview Environmental labels and declarations -- Type III environmental declarations -- Principles and procedures

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