Finsa

FIBRAPLAST

TECHNICAL DATA-AVERAGE VALUES — **Rev: 27/05/2020**

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm						
			>2.5/4	>4/6	>6/9	>9/12	>12/19	>19/30	>30/45
DENSITY (*)	EN 323	kg/m3	850/825	820/800	780/740	735/720	720/675	675/655	660
INTERNAL BOND	EN 319	N/mm2	0.65	0.65	0.80	0.60	0.55	0.55	0.50
BENDING STRENGTH	EN 310	N/mm2	23	23	23	22	20	18	17
MODULUS OF ELASTICITY	EN 310	N/mm2	2700	2700	2700	2500	2200	2100	1900
THICKNESS SWELLING 24 H	EN 317	%	35	30	17	15	12	10	8
SURFACE SOUNDNESS	EN 311	N/mm2	≥ 1,2	≥ 1,2	≥ 1,2	≥ 1,2	≥ 1,2	≥ 1,2	≥ 1,2
MOISTURE CONTENT	EN 322	%	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3
FORMALDEHYDE EMISSION CLASS E1	EN ISO 12460-3	mg/(m2.h)	≤ 3.5	≤ 3.5	≤ 3.5	≤ 3.5	≤ 3.5	≤ 3.5	≤ 3.5
REACTION TO FIRE TABLA 8 EN EN 13986:2006+A1:2015	EN 13501-1	Class	E	E	D-s2,d0 (**)	D-s2,d0 (**)	D-s2,d0 (***)	D-s2,d0	D-s2,d0
REACTION TO FIRE TABLA 8 EN 13986:2004+A1:2015 I	EN 13501-1	Class	E	E	Dfl-s1 (****)	Dfl-s1	Dfl-s1	Dfl-s1	Dfl-s1
SOUND ABSORPTION COEFFICIENT (A) (250 A 500 HZ)	EN 13984:2004+A1:2015	α	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SOUND ABSORPTION COEFFICIENT (A) (1000 A 2000 HZ)	EN 13984:2004+A1:2015	α	0.20	0.20	0.20	0.20	0.20	0.20	0.20
THERMAL CONDUCTIVITY	EN 13984:2004+A1:2015	W/ (m·K)	0.15	0.15	0.14	0.13	0.12	0.12	0.12
AIRBORNE SOUND INSULATION (SURFACE MASS) (R)	EN 13986:2004+A1:2015	db	NPD	NPD	25	25	28	30	32
WATER VAPOUR PERMEABILITY DRY CUP	EN 13986:2004+A1:2015	μ	31	30	28	27	25	24	15/24
WATER VAPOUR PERMEABILITY WET CUP	EN 13986:2004+A1:2015	μ	21	20	18	17	16	15	
BIOLOGICAL DURABILITY USE	EN 335	Class of use	1	1	1	1	1	1	1
CONTENT OF PENTACHLOROPHENOL (PCP)	EN 13986:2004+A1:2015	ppm	< 5	< 5	< 5	< 5	<5	< 5	< 5

TOLERANCE ON NOMINAL DIMENSIONS

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm						
			>2.5/4	>4/6	>6/9	>9/12	>12/19	>19/30	>30/45
THICKNESS ON NOMINAL DIMENSIONS	EN 14323	mm	+/-0.3 +0.5/-0.3 (AH)	+/-0.3 +0.5/-0.3 (AH)	+/-0.3 +0.5/-0.3 (AH)	+/-0.3 +0.5/-0.3 (AH)	+/-0.3 +0.5/-0.3 (AH)	+/-0.5	+/-0.5
THICKNESS WITHIN THE BOARD	EN 14323	mm	max-min <0,6	max-min <0,6	max-min <0,6	max-min <0,6	max-min <0,6	max-min <0,6	max-min <0,6
LENGHT & WIDTH	EN 14323	mm	+/-5	+/-5	+/-5	+/-5	+/-5	+/-5	+/-5
FLATNESS (SOLAMENTE EN REVESTIMIENTOS EQUILIBRADOS)	UNE-EN-14323	mm/m	-	-	-	-	≤2 (v*)	≤2 (v*)	≤2 (v*)

COATING PROPERTIES

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm
RESISTANCE TO SCRATCHING	EN 14323	N	≥ 1.5
RESISTANCE TO CRACKING	EN 14323	Rating	≥ 3
SURFACE ASPECT	EN 14323	Rating	4
RESISTANCE TO STAINING (GROUPS 1 Y 2)	EN 14323	Rating	5
RESISTANCE TO STAINING (GROUP 3)	EN 14323	Rating	4
COLOR RESISTANCE TO UV LIGHT (XENON LAMP)	EN 14323; EN 14323	Blue wool scale, nº	> 6
ANTIBACTERIAL EFFICIENCY	ISO 22196	%	≥ 99.9

VISUAL DEFECTS

EDGES DAMAGED	EN 14323	mm	≤ 2
SURFACE DEFECTS. POINTS	EN 14323	mm2/m2	≤ 20
SURFACE DEFECTS. LENGHT	EN 14323	mm/m2	≤ 10

RESISTANCE TO ABRASION:	TEST METHOD	CLASS	IP NUMBER OF TURNS
RESISTANCE TO ABRASION:. DESIGNS (GENERAL APPLICATIONS)	EN 14323	1	<50
RESISTANCE TO ABRASION. UNICOLORS AND AH PRODUCTS	EN 14323	3A	≥150

(*) VALUES TO BE CONSIDERED AS A ROUGH GUIDE ONLY.

(**) Minimun thickness 9mm mounted without an air gap behind the FIBRAPLAST. Mounted with a closed air gap not more than 22 mm behind the FIBRAPLAST classification D-s2,d2. Classification E for any other more restrictive condition. Commission Decision 2007/348/EC.

(***) Mounted without an air gap behind the FIBRAPLAST, or with a closed air gap behind the FIBRAPLAST for thicknesses equal or greater than 15mm or with an open air gap behind the FIBRAPLAST for thicknesses equal or greater than 18 mm. Mounted with a closed air gap not more than 22 mm behind the FIBRAPLAST classification D-s2,d2 in thicknesses between 10 and 18 mm. Commission Decision 2007/348/EC.

(****) Minimum thickness 9 mm.

(v*) Thickness ≥15 mm and balanced recoverings.

These physical-mechanical values improve/comply with those established by EN 622-5:2009 European Standard, Table 3. Requirements for general purpose boards for use in dry conditions (type MDF).

FIBRAPLAST meets Class E1 requirements defined in the European Standard EN 14322.

FIBRAPLAST is endorsed by AITIM Quality Label.

Product tested by IMSL under the Standard ISO 22196:2011, verifying that inhibits the growth and development of bacteria without affecting the characteristics of the coating.

HANDLING/STORAGE:

It must always be stored under cover and on a flat surface.
20ºC of temperature and 65% of humidity are the ideal conditions for its storage, dryer or more moist environments should be avoided.
It must never be in direct contact with water.
Blocks must always be lined up with the vertical.
Never pile up more than 4 heights.
If the packaging is damaged during its handling, it must be packed again so the product is correctly preserved.

If the piling-up conditions or the changes in moisture or temperature above mentioned are not respected in the warehouses or the processing areas, they may cause irreversible deformations and warpings.

Non dangerous product. Adequate ergonomic techniques and IPEs must be used when handling. Dust generated in cutting, sanding, drawmilling and other processes must be extracted from the working environment with the usual procedures in the wood industry as industrial vacuum systems and IPEs use must be observed according to law.