

**FIBRAPLAST FORMA****TECHNICAL DATA-AVERAGE VALUES**

Rev: 27.05.2020

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm			
			7-9	>9-12	>12-19	>19-30
DENSITY (*)	EN 323	kg/m ³	620	600	600	600
INTERNAL BOND	EN 319	N/mm ²	0,55	0,55	0,50	0,50
BENDING STRENGTH	EN 310	N/mm ²	20	20	18	17
MODULUS OF ELASTICITY	EN 310	N/mm ²	1700	1700	1600	1500
THICKNESS SWELLING 24 H	EN 317	%	18	15	13	10
SURFACE SOUNDNESS	EN 311	N/mm ²	≥ 0.8	≥ 0.8	≥ 0.8	≥ 0.8
MOISTURE CONTENT	EN 322	%	7+/-3	7+/-3	7+/-3	7+/-3
GRIT CONTENT	ISO 3340	% Weight	≤ 0,05	≤ 0,05	≤ 0,05	≤ 0,05
FORMALDEHYDE EMISSION CLASS E1	EN ISO 12460-3	mg/(m ² .h)	≤ 3.5	≤ 3.5	≤ 3.5	≤ 3.5
REACTION TO FIRE TABLA 8 EN EN 13986:2006+A1:2015	EN 13501-1	Class	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	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
SOUND ABSORPTION COEFFICIENT (A) (1000 A 2000 HZ)	EN 13984:2004+A1:2015	α	0.20	0.20	0.20	0.20
THERMAL CONDUCTIVITY	EN 13984:2004+A1:2015	W/ (m·K)	0.10	0.10	0.10	0.10
AIRBORNE SOUND INSULATION (SURFACE MASS) (R)	EN 13986:2004+A1:2015	db	25	25	28	30
WATER VAPOUR PERMEABILITY DRY CUP	EN 13986:2004+A1:2015	μ	12	12	12	12
WATER VAPOUR PERMEABILITY WET CUP	EN 13986:2004+A1:2015	μ	20	20	20	20
BIOLOGICAL DURABILITY USE	EN 335	Class of use	1	1	1	1
CONTENT OF PENTACHLOROPHENOL (PCP)	EN 13986:2004+A1:2015	ppm	< 5	< 5	< 5	< 5

TOLERANCE ON NOMINAL DIMENSIONS

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm			
			7-9	>9-12	>12-19	>19-30
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)	+/-0,5
THICKNESS WITHIN THE BOARD	EN 14323	mm	max-min <0,6	max-min <0,6	max-min <0,6	max-min <0,6
LENGHT & WIDTH	EN 14323	mm	max-min <0,6	max-min <0,6	max-min <0,6	max-min <0,6
FLATNESS (SOLAMENTE EN REVESTIMIENTOS EQUILIBRADOS)	UNE-EN-14323	mm/m	-	-	≤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, n°	> 6
ANTIBACTERIAL EFFICIENCY	ISO 22196	%	≥ 99.9

VISUAL DEFECTS

EDGES DAMAGED	EN 14323	mm	≤ 2
SURFACE DEFECTS. POINTS	EN 14323	mm ² /m ²	≤ 20
SURFACE DEFECTS. LENGHT	EN 14323	mm/m ²	≤ 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.

(**) Minimum 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 FORMA, or with a closed air gap behind the FIBRAPLAST FORMA for thicknesses equal or greater than 15mm or with an open air gap behind the FIBRAPLAST FORMA for thicknesses equal or greater than 18 mm. Mounted with a closed air gap not more than 22 mm behind the FIBRAPLAST FORMA 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 FORMA meets Class E1 requirements defined in the European Standard EN 14322.

FIBRAPLAST FORMA 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.

20°C 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.