

## FIBRACOLOUR NEGRO HID E-Z

### TECHNICAL DATA-AVERAGE VALUES

Rev: 27/01/2022

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm						
			3 - 4	> 4 - 6	> 6 - 9	> 9 - 12	>12 - 19	>19 - 30	>30 - 39
DENSITY (*)	EN 323	kg/m3	880 / 860	855 / 830	820	800 / 770	770 / 740	740 / 720	720 / 710
INTERNAL BOND	EN 319	N/mm2	0.90	0.85	0.80	0.80	0.75	0.75	0.70
BENDING STRENGTH	EN 310	N/mm2	27	27	30	30	30	28	25
MODULUS OF ELASTICITY	EN 310	N/mm2	2700	2700	2700	2700	2700	2500	2500
THICKNESS SWELLING 24 H	EN 317	%	30	18	12	10	8	7	7
DIMENSIONAL MOVEMENT LENGTH/WIDTH	EN 318	%	0,4	0,4	0,4	0,4	0,4	0,4	0,4
DIMENSIONAL MOVEMENT TICKNESS	EN 318	%	6	6	6	6	6	6	6
MOISTURE CONTENT	EN 322	%	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3
FORMALDEHYDE EMISSION	EN 717-1	ppm	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05
REACTION TO FIRE TABLA 8 EN EN 13986:2006+A1:2015	EN 13501-1	Class	E	E	E	D-s2,d0**	D-s2,d0***	D-s2,d0	D-s2,d0
SWELLING IN THICKNESS AFTER CYCLIC TEST (V313)	EN 321 / EN 317	%	40	25	19	16	15	15	15
INTERNAL BOND AFTER CYCLIC TEST (V313)	EN 321 / EN 319	N/mm2	0.35	0.35	0.30	0.25	0.20	0.15	0.15
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	0.15	0.14	0.13	0.13	0.12
AIRBORNE SOUND INSULATION (SURFACE MASS) (R)	EN 13986:2004+A1:2015	db	NPD	NPD	25	26	28	30	32
WATER VAPOUR PERMEABILITY DRY CUP	EN 13986:2004+A1:2015	μ	31	30	30	29	29	27	26
WATER VAPOUR PERMEABILITY WET CUP	EN 13986:2004+A1:2015	μ	21	20	20	19	19	18	16
BIOLOGICAL DURABILITY USE	EN 335	Class of use	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
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						
			3 - 4	> 4 - 6	> 6 - 9	> 9 - 12	>12 - 19	>19 - 30	>30 - 39
THICKNESS	EN 324-1	mm	+/-0.15	+/-0.15	+/-0.2	+/-0.2	+/-0.2	+/- 0.3	+/- 0.3
LENGTH/WIDTH	EN-324-1	mm	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2
			mm/m, máx +/- 5 mm	mm/m, máx +/- 5 mm	mm/m, máx +/- 5 mm	mm/m, máx +/- 5 mm	mm/m, máx +/- 5 mm	mm/m, máx +/- 5 mm	mm/m, máx +/- 5 mm
SQUARENESS	EN 324-2	mm/m	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2	+/- 2
EDGE STRAIGHTNESS	EN-324-2	mm/m	+/-1,5	+/-1,5	+/-1,5	+/-1,5	+/-1,5	+/-1,5	+/-1,5

### COLOUR

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm
LIGHTNESS ON FACES ( L* )	CIE 1976 (CIELAB)	--	L* < 35
MAGENTA-GREEN COORDINATE ON FACES ( A* )	CIE 1976 (CIELAB)	--	0≤a≤1
YELLOW-BLUE COORDINATE ON FACES ( B* )	CIE 1976 (CIELAB)	--	0≤b≤4
DETERMINATION OF LIGHT FASTNESS	ISO 2809. EN ISO 11341	Blue Scale	>6

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

(\*\*) Mounted without an air gap behind the FIBRACOLOUR NEGRO HID E-Z. Mounted with a closed air gap not more than 22 mm behind the FIBRACOLOUR NEGRO HID E-Z classification D-s2,d2. Classification E for any other more restrictive condition. Commission Decision 2007/348/EC.

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

These physical-mechanical values improve/comply with those established in EN 622-5:2009 European Standard, Table 4, Option 1. Requirements for general use boards for use in humid conditions (Type MDF.H).

FIBRACOLOUR NEGRO HID E-Z is a low formaldehyde emission product E05 ( ≤ 0.05 ppm EN 717-1) and meets Class E1 requirements as defined in EN 622-1:2003

European Standard.

FIBRACOLOUR NEGRO HID E-Z (3mm - 10 mm) is US EPA TSCA TITLE VI and CARB phase 2 certified by TPC-15.

Link to certificate:

[https://drive.google.com/file/d/15bbRWScFTHAYe3sVj\\_HHHiNZwrDcqQv2/view?usp=sharing](https://drive.google.com/file/d/15bbRWScFTHAYe3sVj_HHHiNZwrDcqQv2/view?usp=sharing)

<https://drive.google.com/file/d/12J9CvP3K0nYdizs9VXzVurfBd1rLqnBP/view?usp=sharing>

Link to quarterly atestation: <https://drive.google.com/file/d/1z0jxPnYj7NQk6CbyIsZi3YfyVv7cuPnn/view?usp=sharing>.

FIBRACOLOUR NEGRO HID E-Z (> 8mm - 39 mm) is US EPA TSCA TITLE VI and CARB phase 2 certified by TPC-4.

Link to certificates:

<https://drive.google.com/file/d/0B-Xe1750UJbXOWdSenhnbDkyWG8/view?usp=sharing&resourcekey=0-d-6J9Mdz6ygru6goRKSD1w>

[https://drive.google.com/file/d/0B-Xe1750UJbXc1NNaFNKcVZWX28/view?usp=sharing&resourcekey=0-bYbr3VR0u4BazRAXP\\_QsoA](https://drive.google.com/file/d/0B-Xe1750UJbXc1NNaFNKcVZWX28/view?usp=sharing&resourcekey=0-bYbr3VR0u4BazRAXP_QsoA)

Link to quarterly atestations: <https://drive.google.com/file/d/1izmDVdC9YQJe6IEVXd7et-gppKLmM60K/view?usp=sharing>

[https://drive.google.com/file/d/0B-Xe1750UJbXSERJLWQwWF11QzA/view?usp=sharing&resourcekey=0-n\\_Ov1Z3ob\\_8-tlCQLfClag](https://drive.google.com/file/d/0B-Xe1750UJbXSERJLWQwWF11QzA/view?usp=sharing&resourcekey=0-n_Ov1Z3ob_8-tlCQLfClag).

<div style='visibility:hidden;\*>(SELECT)</div>

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.