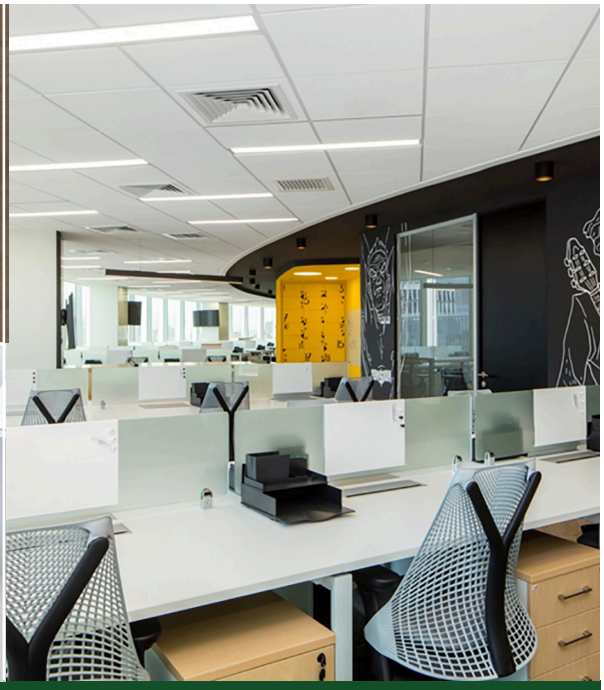
BioCarbon® Laminates
Breathing Sustainability



TECHNICAL DATASHEET

HIGH PRESSURE LAMINATES

PROPERTIES

- A Carbon Neutral product
- The protection of an Anti-Bacterial and Anti-Microbial surface
- A durable decorative surface
- Good resistance to impact, general surface wear and staining etc
- Surface impervious to water
- Ease of maintenance
- Information on Light Reflective Values and colour references can be provided and are available for most solid decors
- Available in a wide range of decors in colours, minerals, woods etc

Key features

■ Standard Feature
■ Optional Feature

APPLICATIONS

- BioCarbon High Pressure Laminates provide the security of Anti-Microbial protection for Hygiene sensitive areas in industries and applications such Healthcare, Hospitality, Washrooms and Lockers, Commercial interiors, Leisure facilities, Retail, and Educational, are environments where such protection would be essential.
- Suitable for vertical and horizontal such as Hospital Furniture, IPS Panelling, Doors and Desktops.

AVAILABILITY

	HPL		
Thickness (mm)	0.7		
Sheet sizes (mm)	2440 x 1240	3060 x 1240	3660 x 1530
Grade	Standard Grade, FR Grade available as an option*		
Finish	ES		

Other sheet sizes are available to order. When ordering FSC® certified materials please ensure this is requested on your purchase order as availability on FSC® certified material may vary.
*Fire Retardant Grade (FR) for HPL and Liscio - To achieve certificated composite Fire Performance the selection of FR grade laminate, FR grade core material including appropriate adhesive and bonding system must be carefully considered. For further advice please speak to our technical team.

SAMPLES

To order samples please contact our UK Distributor Performance Panels Ltd.

☎ +44 (0) 1422 310319
✉ info@performance-panels.co.uk
💻 www.performance-panels.co.uk

www.biocarbonlaminates.com

BIOCARBON LAMINATES
HPL TECHNICAL SPECIFICATIONS

STANDARD METHOD CLAUSE # NEMALD.3 -2005 AND EN-438 - 2016	PROPERTY	UNITS	HPL 0.7mm			HPL 0.6mm SURFACE CABINET LINER (NOT POST-FORMABLE)		
	Standard	——	BioCarbon Laminates	Nema LD.3	EN 438	BioCarbon Laminates	Nema LD.3	EN 438
#3.1.5 Nema LD.3 #5 EN-438	Thickness	mm (in)	0.7 (0.028)			0.6 (0.020)		
	Thickness tolerance	mm (in)	+/-0.10 (+/-0.004)			+/-0.10 (+/-0.004)		
#3.1 Nema LD.3, #4.0 EN-438	Appearance	Defects	According to method # 4 EN438-2 and method # 3.1 Nema LD.3					
#3.13 Nema LD.3 - #10 EN-438	Wear resistance	Initial point (Cycles-min.)	300	——	50	300	——	50
		Total Wear (Cycles-min.)	600	400	——	600	400	——
# 3.12 Nema LD.3	Dimensional stability at room temperature:							
	Direction machine	%Max	0.60	1.00	NA	0.60	0.80	NA
	Cross machine	%Max	0.80	1.30	NA	0.80	1.30	NA
#3. 1 1 Nema LD.3, #17 EN-438	Dimensional stability at elevated temperature:							
	Direction machine	%Max	0.60	1.10	0.75	0.50	0.80	0.75
	Cross machine	%Max	0.90	1.40	1.25	0.80	1.30	1.25
#3.5 Nema LD.3	Boiling water resistance (Tea Pot)	Grade (not Worse Than)	SL	SL	NA	NE	NE	NA
#3.6 Nema LD.3 - #16 EN-438	Resistance to dry heat (Hot Pot - 180 °C)	Gloss Finish (Grade)	SL	SL	3	SL	SL	NA
		Other Finishes (Grade)	SL	SL	4	SL	SL	NA
#20 EN-438	Resistance to impact by small diameter ball	Newton - min.	20	NA	15	20	NA	15
#3.8 Nema LD.3, #21 EN-438	Resistance to impact by large diameter ball	mm-min.	850	500	600	750	400	600
# 3.7 Nema LD.3, #25 EN-438	Scratch resistance	Newton - min.	2	2	2	2	2	2
#3.4 Nema LD.3, #26 EN-438	Resistance to staining							
	Cleanability	Rating - max.	12	20	NA	12	20	NA
	Groups 1 and 2 (Stain 1-10)	Grade (not Worse Than)	5	NE	5	5	NE	NA
	Groups 3 and 4 (Stain 11-15)	Grade (not Worse Than)	4	M	4	4	M	NA
#3.3 Nema LD.3, #27 EN-438	Light resistance (Change in xenon arc light)	Scale of grays	5	SL	4 - 5	5	SL	NA
#3.14 Nema LD.3, #31 o 32 EN-438	Formability	Radius (min.)	7.5	13	10	NA	NA	NA
#3.15 Nema LD.3, #33 o 34 EN-438	Resistance to blistering	Time to blister min. (t2-t1) Sec.	12	12	10	NA	NA	NA
#14 EN-438	Resistance to steam	Gloss Finish (Grade)	3	NA	3	3	NA	NA
		Other Finishes (Grade)	4	NA	4	NA	NA	NA
#3.1.6 Nema LD.3, #9 EN-438	Flatness	mm/m max	60.0	120.0	60.0	60.0	120.0	60.0
ASTM E84 EN 13501-1	Reaction to fire	Fire Retardant Grade (FR) - To achieve certificated composite Fire Performance the selection of FR grade laminate, FR grade core material including appropriate adhesive and bonding system must be carefully considered. For further advice please speak to our technical team.						

Effect: No Effect = 5 = NE, Slight Effect = 4 = SL, Moderate Effect = 3 = M, Severe Effect = 1-2 = S, NA = Not Apply . Nema LD.3 / 2005 America, EN-438 / 2016 Europe.