

## HPL

### HPL Laminate type EN 438-3

Technical data – Reference thickness of 0.7 mm

	GAMA DUO / GEN	GAMA STUDIO
<b>CLASSIFICATION under EN 438-3</b>	<b>HGP (*)</b>	<b>HGS (**)</b>

Characteristic	Test Method	Property / Attribute	units	GAMA DUO	GAMA STUDIO
Density	EN ISO 1183-1	Volumetric mass	g/cm <sup>3</sup>	≥ 1.35	≥ 1.35
Thickness	EN 438-2	Tolerances	mm	+/- 0.1	+/- 0.1
Length	EN 438-2	Tolerances	mm	+/- 10	+/- 10
Width	EN 438-2	Tolerances	mm	+/- 10	+/- 10
Flatness	EN 438-2	Maximum	mm/m	60	60

Appearance: surface defects	EN 438-2.4	Dots	mm/m <sup>2</sup>	≤ 1	≤ 1
		Linear	mm/m <sup>2</sup>	≤ 10	≤ 10
Resistance to surface wear	EN 438-2.10	Initial point	Revs	≥ 150	≥ 150
Resistance to Steam	EN 438-2.14	Aspect: gloss	Grade	≥ 3	≥ 3
	EN 438-2.14	Aspect: others	Grade	≥ 4	≥ 4
Resistance to dry heat (160°C/20')	EN 438-2.16	Aspect: gloss	Grade	≥ 3	≥ 3
		Aspect: others	Grade	≥ 4	≥ 4
Resistance to wet heat (100°)	EN 12721:1997	Aspect: gloss	Grade	≥ 3	≥ 3
		Aspect: others	Grade	≥ 4	≥ 4
Resistance to impact by small-diameter ball	EN 438-2.20	Spring force	N	≥ 20	≥ 20
Resistance to scratching	EN 438-2.25	Load	Grade	≥ 3	≥ 3
Resistance to staining	EN 438-2.26	Aspect - groups 1 y 2	Grade	≥ 5	≥ 5
		Aspect - group 3	Grade	≥ 4	≥ 4
Resistance to color change in xenon arc light	EN 438-2.27	Contrast	Grey scale	≥ 4	5

Food contact. Total migration	EN 1186-3	3% acetic acid 24h, 40°C	mg/dm <sup>2</sup>	< 10	< 10
	EN 1186-3	50% ethanol 24h, 40°C		< 10	< 10
	EN 1186-14	95% ethanol 24h, 40°C		< 10	< 10
Food contact. Formaldehyde migration.	EN 13130-23	Formaldehyde	mg/dm <sup>2</sup>	< 2.5	< 2.5
Microbiological behaviour	ISO 22196	Antibacterial efficiency	%	≥ 99.9	≥ 99.9

The data shown above are informative and based on our experience, in the European Standard EN 438-1 and external testing.

(\*) Pearlescent finishings classified as VGP

(\*\*) Pearlescent finishings classified as VGS

#### ALMACENAJE:

**FINSA LAM** should be stored horizontally in cool, dry, place in properly sealed packaging and without depositing heavy objects. Ideal storage conditions are between 18 - 22 ° C and 50-60% of ambient relative moisture. Storage under excessively dry conditions (30% RH) can adversely affect the results of the postforming. FINSA LAM must be used in the course of a year from the date of delivery. When postformed, the laminate should not have more than 6 months. Anyway, it is recommended to do a test before starting industrial production if the laminate has been stored for a long period of time.