

**LAMCO HPL STARDUST**

Material consisting of layers of kraft paper impregnated with thermosetting resins and a special surface decorative layer impregnated with aminoplastic resins, all bonded together by means of high pressure ( $\geq 7$  Mpa) and high temperature (128°C - 135° C). It is available both in standard and postforming grade.

PROPERTY	TEST METHOD (EN 438: 2016)	PROPERTY OR ATTRIBUTE	UNIT	STANDARD	POSTFORMING
<b>Thickness</b>	EN 438-2.5	thickness (t)	mm	0,5 t 1,0 $\pm 0,10$ 1,0 < t < 2,0 $\pm 0,15$	0,5 t 1,0 $\pm 0,10$ 1,0 < t < 2,0 $\pm 0,15$
<b>Flatness<sup>(1)</sup></b>	EN 438-2.9	maximum deviation	mm/m	60	60
<b>Resistance to surface wear<sup>(2)</sup></b>	EN 438-2.10	wear resistance	revolutions	IP $\geq 150$	IP $\geq 150$
<b>Resistance to immersion in boiling water<sup>(3)</sup></b>	EN 438-2.12	appearance	rating gloss finish other finishes	$\geq 3$ 4	$\geq 3$ 4
<b>Resistance to dry heat (160°C)</b>	EN 438-2.16	appearance	rating gloss finish other finishes	$\geq 3$ $\geq 4$	$\geq 3$ $\geq 4$
<b>Resistance to wet heat (100°C)</b>	EN 438-2.18	appearance	rating gloss finish other finishes	$\geq 3$ $\geq 4$	$\geq 3$ $\geq 4$
<b>Dimensional stability at elevated temperature</b>	EN 438-2.17	cumulative dimensional change	% long. % transv.	$\leq 0,55$ $\leq 1,05$	0,55 1,05
<b>Resistance to impact by small diameter ball</b>	EN 438-2.20	spring force	N	$\geq 20$	$\geq 20$
<b>Resistance to cracking under stress</b>	EN 438-2.23	appearance	rating	$\geq 4$	$\geq 4$
<b>Resistance to scratching<sup>(4)</sup></b>	EN 438-2.25	force	rating smooth finishes textured finishes	$\geq 2$ $\geq 3$	$\geq 2$ $\geq 3$
<b>Resistance to staining</b>	EN 438-2.26	appearance	rating groups 1 & 2 group 3	5 $\geq 4$	5 $\geq 4$
<b>Lightfastness</b>	EN 438-2.27	contrast	grey scale rating	$\geq 4$	$\geq 4$
<b>Resistance to water vapour<sup>(2)</sup></b>	EN 438-2.14	appearance	rating gloss finish other finishes	$\geq 3$ $\geq 4$	$\geq 3$ $\geq 4$
<b>Electrical resistance</b>	EN 61340-4-1	R <sub>v</sub> (23°C /50% RH)	Ohm	$10^9 - 10^{11}$	$10^9 - 10^{11}$
<b>Density</b>	ISO 1183	density	gr/cm <sup>3</sup>	$\geq 1,35$	$\geq 1,35$
<b>Formability</b>	EN 438-2.32	radius	mm	–	t x 10 (long.) t x 20 (transv.)
<b>Resistance to blistering</b>	EN 438-2.34	time	seconds	–	t < 0,8 mm: 10 t 0,8 mm: 15

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- (1) Provided that the laminates are stored in the manner and conditions recommended in our Manual of technical information.
- (2) It refers to the disappearance of inclusions in the decorative surface layer.
- (3) Disappearance of the brightness of inclusions and, in correspondence, the appearance of small blisters.
- (4) Resistance to scratching is depending from finish and colour.
- The colour of individual lots may vary as a result of the technology and type of pigments used.
  - The distribution of the pearlescent inclusions may vary in number and size also from panel to panel.
  - The presence of slight reliefs on the surface does not constitute a defect but a characteristic of the product.
  - Avoid applications near excessive sources of heat and steam.
  - LAMCO HPL STARDUST is recommended for vertical applications.

**FIRE PERFORMANCE**

TEST METHOD	NORMATIVE REFERENCE	CLASSIFICATION
Small flame and radiant panel	UNI 8457 UNI 9174 UNI 9177	class 1
Spread of flame	BS 476-7	classe 2
Brandschacht	DIN4102-1	B2
Epiradiateur	NF P 92-501	min. M3
Smoke density and toxicity	NF F 16-101	min F2

N.B. Fire test performance will depend on laminate thickness and construction, substrate type and thickness, and adhesive used.