

LAMCO HPL MOD

Material consisting of layers of kraft paper impregnated with thermosetting resins and a particular surface layer containing decorative paper impregnated with aminoplastic resins, all bonded together by means of high pressure (9 Mpa) and high temperature (125-135° C). An innovative technology gives to the product surface very high performances regarding surface resistance, included fingerprint resistance, and also an high performance to postforming process.

This material is produced in conformity to EN 438-3:2005.

PROPERTY	TEST METHOD (EN 438: 2005)	PROPERTY OR ATTRIBUTE	UNIT	EN 438 MINIMUM REQUIRED VALUES	AVERAGE MOD VALUES
Thickness	EN 438-2.5	thickness (t)	mm	0,5 t 1,0 ±0,10 1,0 < t < 2,0 ±0,15	0,5 t 1,0 ±0,10 1,0 < t 2,0 ±0,15
Flatness	EN 438-2.9	maximum deviation	mm/mtl	60	60
Resistance to surface wear	EN 438-2.10	wear resistance	revs	IP ≥ 150 A ≥ 350	IP ≥ 300 A ≥ 700
Resistance to immersion in boiling water	EN 438-2.12	appearance	rating	4	5
Resistance to dry heat (180°C)	EN 438-2.16	appearance	rating	≥ 4	5
Resistance to wet heat (100°C)	EN 12721	appearance	rating	≥ 4	5
Dimensional stability at elevated temperature	EN 438-2.17	cumulative dimensional change	% long. % transv.	≤ 0,55 ≤ 1,05	≤ 0,55 ≤ 1,05
Resistance to impact by small diameter ball	EN 438-2.20	spring force	N	≥ 20	≥ 20
Resistance to cracking	EN 438-2.23	appearance	rating	≥ 4	≥ 4
Resistance to scratching ⁽¹⁾	EN 438-2.25	force	rating	3	4
Resistance to staining	EN 438-2.26	app. groups 1-2 appear. groups 3	rating	5 ≥4	5 5
Lightfastness	EN 438-2.27	contrast	grey scale rating	≥ 4	≥ 4
Resistance to cigarette burns	EN 438-2.30	appearance	rating	≥ 3	≥ 3
Resistance to water vapour	EN 438-2.14	appearance	rating	≥ 4	5
Formability	EN 438-2.32	radius	mm	t x 10 long. t x 20 transv.	t x 10 long. t x 20 transv.
Resistance to blistering	EN 438-2.34	time	sec.	t < 0,8 mm: 10 t 0,8 mm: 15	t < 0,8 mm: 10 t 0,8 mm: 15
Electrical resistance	EN 61340-4-1	R _v (23°C /50% RH)	Ohm	–	10 ⁹ - 10 ¹¹
Density	ISO 1183	density	gr/cm ³	≥ 1,35	≥ 1,35

(1) Resistance to scratching is depending from colour.

Note: The colour of individual lots may vary as a result of the technology and type of pigment used. Pay attention to the direction of the texture. Furthermore, the decorative surface of the LAMCO HPL MOD, could have a slight different tonality from decorative surface with the same colour code number of the other Lamicolor products.