

LAMCO HPL FLOOR

Decorative high pressure laminate composed of layers of kraft paper impregnated with thermosetting resins and of one or more surface layers (decorative paper) impregnated with aminoplastic resins; all bonded together by means of high pressure (9 Mpa) and heat (150°C). For its excellent resistance to surface wear it finds its ideal application in floors. This material is produced in conformity to EN 438-5.

PROPERTY	TEST METHOD (EN 438: 2016)	PROPERTY OR ATTRIBUTE	UNIT	VALUES
Thickness ± tolerance	EN 438-2.5	thickness (t)	mm	0,5 ≤ t ≤ 1,0 ±0,10 1,0 < t < 2,0 ±0,15
Flatness	EN 438-2.9	maximum deviation	mm/mtl	60
Resistance to abrasion	EN 438-2.11	abrasion resistance	revs	AC1 IP ≥ 900 AC2 IP ≥ 1500 AC3 IP ≥ 2000
Resistance to wet heat (100°C)	EN 12721	appearance	rating	≥ 4
Dimensional stability at elevated temperature	EN 438-2.17	cumulative dimensional change	% long. % transv.	t < 1mm ≤ 0,65 ≤ 1,15
			% long. % transv.	1 ≤ t < 2mm ≤ 0,45 ≤ 0,90
Res. to impact by small diameter ball	EN 438-2.20	spring force	N	≥ 20
Res. to impact by large diameter ball⁽¹⁾	EN 438-2.22	drop height	mm (min)	1600
		indentation diameter	mm (max)	10
Resistance to staining	EN 438-2.26	appear. groups 1-2 appear. groups 3	rating	5 ≥ 4
Lightfastness	EN 438-2.27	contrast	grey scale rating	≥ 4
Resistance to cigarette burns	EN 438-2.30	appearance	rating	≥ 4
Resistance to water vapour	EN 438-2.14	appearance	rating	≥ 4
Electrical resistance	EN 61340-4-1	R _v (23°C / 50% RH)	Ohm	10 ⁹ - 10 ¹¹
Slipping	ASTM C-1028	static friction	coefficient (average)	0,7
Density	ISO 1183	density	gr/cm ³	≥ 1,40

(1) test carried out with the laminate bonded to 6 mm MDF of density 850 ± 50 Kg/m³.

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.

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FIRE PERFORMANCE

TEST METHOD	STANDARD	CLASSIFICATION	
		FLAME RETARDANT	STANDARD
Small flame and radiant panel	UNI 8457 UNI 9174 UNI 9177	class 1	class 1
Spread of flame	BS 476-7	class 1	class 2
Brandschacht	DIN4102-1	B1	B2
Epiradiateur	NF P 92-501	M1	min. M3
Smoke density and toxicity	NF F 16-101	min F2	min F2
Heat release	IMO Res. A 653(16)	pass	pass

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