LAMICOLOR®

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 438-5:2005.

PROPERTY	TEST METHOD (EN 438: 2005)	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/m^3.
Note: The colour of individual lots may vary as a result of the technology and tyte of pigment used. Pay attention to the direction of the texture.

LAMCO HPL FLOOR

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.