

**TECHNICAL DATA SHEET HPL** <sup>(1) (5)</sup> [Versie : 01/10/2019]

Product type :	High-pressure decorative laminates (HPL)
Reference standard :	EN 438-3 : High-pressure decorative laminates (HPL) — Sheets based on thermosetting resins (usually called laminates) — Classification and specifications for laminates less than 2mm thick intended for bonding to supporting substrates.
Field of application :	HGP (Horizontal - General Purpose- Postformable Grade) <sup>(4)</sup>

Essential Characteristic	Unit	Reference	Thickness range (mm)
			0,7mm
Thickness variation relative to nominal value	mm	EN 438-3-table 4	± 0,1
Length variation	mm	EN 438-3-table 4	- 0 / +10
Width variation	mm	EN 438-3-table 4	- 0 / +10
Flatness	mm/Lm	EN 438-3-table 4	≤ 60
Straightness of edges	mm/Lm	EN 438-3-table 4	≤ 1,5
Squareness	mm/Lm	EN 438-3-table 4	≤ 1,5
Edge Damage : 4 Sides	mm	EN 438-3-6.2.4.2	< 20
Surface Defects (points)	mm <sup>2</sup> / m <sup>2</sup>	EN 438-3-6.2.4.1	≤ 1
Surface Defects (lines)	mm / m <sup>2</sup>	EN 438-3-6.2.4.1	≤ 10
Resistance to surface wear <sup>(2)(3)</sup>	Revolutions	EN 438-3-table 5	IP ≥ 150
Resistance to impact by small diameter ball	N	EN 438-3-table 5	≥ 20
Resistance to scratching	Rating	EN 438-3-table 5	Smooth structure : ≥ 2; Other ≥ 3
Dimensional stability at elevated temperature	%	EN 438-3-table 5	L ≤ 0,55 ; T ≤ 1,05
Resistance to immersion in boiling water	Rating	EN 438-3-table 5	Gloss : ≥ 3 ; Other : ≥ 4
Resistance to dry heat (180°C)	Rating	EN 438-3-table 5	Gloss : ≥ 3 ; Other : ≥ 4
Resistance to wet heat (100°C)	Rating	EN 438-3-table 5	Gloss : ≥ 3 ; Other : ≥ 4
Resistance to staining	Rating	EN 438-3-table 5	Group 1,2 : 5 ; Group 3 : ≥ 4
Light fastness (xenon arc)	Rating	EN 438-3-table 5	4 - 5
Resistance to water vapour	Rating	EN 438-3-table 5	Gloss : ≥ 3 ; Other : ≥ 4
Density	g/cm <sup>3</sup>	EN 438-3-table 5	≥ 1,35
Formability	Radius	EN 438-3-table 5	L ≤ 10*thickness ; T ≤ 15*thickness
Resistance to blistering	Sec	EN 438-3-table 6	≥ 10

(1) The data mentioned above is intended for information only and based on our in house experience till now. This does not constitute a 100% guarantee in terms of product features.

(2) Values can be lower for specific printed decors and/or deep structures

(3) To ensure colour fastness, the specific properties of metallics (760M01, F992M01, F993M01, F994M01) meet VGP values so are preferably used only in vertical applications

(4) For intensively used, horizontal surfaces, the laminate in Super Mat structure (MST) is not recommended, the laminate is classified as HGS (Horizontal - General Purpose - Non Postformable).

(5) Please always validate samples via a test order when creating furniture. In any case, UNILIN cannot guarantee a perfect colour or surface match for the MST structure in HPL or Melamine faced board or Edging tape and will not be able to accept any claim on it.

Informative Characteristic	Unit	Reference	Thickness Range (mm)
			0,7mm
Emission classification France	Class	ISO 16000-6	A+
AgBB emission regulation Germany	-	ISO 16000-6	√