

**TECHNICAL DATA SHEET HPL (\*) [Version : 15/05/2017]**

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)

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

(\*) 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.

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

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