LAMICOLOR®

LAMCO HPL PEARLESCENT (ATS - ATP)

Material consisting of decorative surface layers with perlescent effect, impregnated with melamin resin, supported by layers of Kraft paper impregnated with thermosetting resins , all bonded together by means of a high pressure process including simultaneous application of heat (temperature ≥ 120 °C) and high specific pressure (≥ 5 MPa).This material is produced in conformity to EN 438-8:2009. **It is strictly recommended that these products are used for vertical applications only.**

ATS (standard grade)
ATP (postforming grade)

PROPERTY	TEST METHOD (EN 438: 2005)	PROPERTY OR ATTRIBUTE	UNIT	VALUES ATS	VALUES ATP
Thickness	EN 438-2.5	thickness (t)	mm	0,5 ≤ S ≤ 1,0 ±0,10 1,0 < S < 2,0 ±0,15	0,5 ≤ S ≤ 1,0 ±0,10 1,0 < S < 2,0 ±0,15
Flatness(1)	EN 438-2.9	maximum deviation	mm/m	60	60
Resistance to immersion in boiling water	EN 438-2.12	appearance gloss finish appearance other finishes	rating	≥ 3 ≥ 4	≥ 3 ≥ 4
Dimensional stability at elevated temperature	EN 438-2.17	cumulative dimensional change	% long. % transv.	≤ 0,75 ≤ 1,25	≤ 0,75 ≤ 1,25
Resistance to impact by small diameter ball	EN 438-2.20	spring force	N	≥ 15	≥ 15
Resistance to cracking	EN 438-2.23	appearance	rating	≥ 4	≥ 4
Resistance to scratching(2)	EN 438-2.25	force	rating	≥2	≥2
Resistance to staining	EN 438-2.26	app. groups 1-2 appear. groups 3	rating	5 ≥ 4	5 ≥ 4
Lightfastness(3)	EN 438-2.27	contrast	grey scale rating	≥ 4	≥ 4
Resistance to water vapour	EN 438-2.14	appearance	rating	≥ 3	≥ 3
Formability	EN 438-2.32	radius	mm	–	≤ t x 10 long. ≤ t x 20 trasv.
Resistance to blistering	EN 438-2.34	time	sec.	–	t < 0,8 mm: ≥ 10 t ≥ 0,8 mm: ≥ 15
Density	ISO 1183	density	gr/cm^3	≥ 1,35	≥ 1,35

(1) Provided that the perlescent laminates are stored in the manner and conditions recommended in our "Manual of Technical Information" available on our website.
(2) The degree to which decorative laminates show scuff and scratch marks is influenced by surface finish and colour. In general terms, scuff and scratch marks are less easily seen on textured surfaces than on plane surface finishes; light colours are better than dark colours.
(3) Extraneous darkening and/or photocromism are due to the shock effect of accelerated exposure and are not characteristics of natural exposure.
Note 1: 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.
Note 2: LAMCO HPL PEARLESCENT is also available in flame retardant grade version **ATF** with the same general properties of ATS standard grade but with better fire performance.

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FIRE PERFORMANCE

TEST METHOD	STANDARD	CLASSIFICATION	
		Type ATS - ATP	Type ATF
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	M3 or better
Smoke density and toxicity	NF F 16-101	F2 or better	F2 or better
Heat release	IMO Res. A 653(16)	Pass	Pass

Note: Table above shows some examples of how LAMCO HPL PEARLESCENT can relate to some of the more common European test methods when mounted on a support of fire-proof material.
The requirements for reaction to fire are determined by the fire regulations of the country in which the material will be used.
Reaction to fire will also depend on laminate thickness and construction of the element, substrate type and thickness, and adhesive used.
The fire classification of the composite panel is under the responsibility of the final manufacturer of the composite.
You can contact our technical service for details of fire test reports and certifications held, and for information on fire test methods and specifications.