## THIN | BLOOM



These thin laminates are normally intented for bonding to supporting substrates, normally wood based, to produce panels by the composite manifacturers. Bloom, a new core technology where lignin has been introduced to significantly reduce the amount of phenol included in the resin by 50%.

Plain colours Bloom black core EN 438-3 PROPERTIES TEST METHOD PROPERTY OR ATTRIBUTE VALUES UNIT SURFACE QUALITY Spots, dirt and similar surface defects Fibres, hairs and scratches ≤ 1 mm²/m EN 438-2:2019 cl.4 Surface quality ≤ 10 mm/m DIMENSIONAL TOLERANCES EN 438-2:2019 cl.5 Thickness tolerance mm 0,7 ± 0,10 Τ + 10 / - 0 EN 438-2:2019 cl.6 Length and width T mm imensional tolerances ≤ 1,5 EN 438-2:2019 cl.7 Straightness of edges Τ mm/m Squareness ≤ 1.5 EN 438-2:2019 cl.8 mm/n EN 438-2:2019 cl.9 Flatness (measured on full-size sheet) mm/m < 60 T Т GENERAL PROPERTIES ≥ 150 EN 438-2:2019 cl.10 Initial Point Revolutions esistance to surface wear Т Т ≥3 ≥4 esistance to immersion in boiling water EN 438-2:2019 cl.12 Appearance - Gloss finish Appearance - Other finish Rating Rating ≥3 ≥4 EN 438-2:2019 cl.14 Appearance - Gloss finish Appearance - Other finish Rating Rating esistance to water vapou Appearance - Gloss finish Appearance - Other finish Rating Rating ≥3 ≥4 EN 438-2:2019 cl.16 Resistance to dry heat (160 °C/20') ≥3 ≥4 EN 438-2:2019 cl.18 Appearance - Gloss finish Appearance - Other finish Rating Rating Resistance to wet heat (100 °C/20') ≤ 0,55 ≤ 1,05 Cumulative dimensional change Cumulative dimensional change Longitudinal % Transversal % imensional stability at elevated temperatures EN 438-2:2019 cl.17 esistance to impact with small diameter ball EN 438-2:2019 cl.20 Spring force Ν ≥ 20 Resistance to cracking under stress Т EN 438-2:2019 cl.23 Appearance Т Rating Т ≥4 ≥ 3 Resistance to scratching T EN 438-2:2019 cl.25 Appearance Rating ≥5 ≥4 Appearance - Group 1 & 2 Appearance - Group 3 esistance to staining EN 438-2:2019 cl.26 Rating Rating ≥4 Light fastness (Xenon-arc) EN 438-2:2019 cl.27 Contrast Grey scale rating Point to point resistance Vertical resistance  $1 \times 10^9 \div 1 \times 10^1$ EN 61340-4-1 lectrostatic properties  $1 \times 10^9 \div 1 \times 10$ EN ISO 1183 ≥ 1.35 Density Density a/cm FIRE PERFORMANCES The reaction to fire of HPL BLOOM is related to the final composite panel where the laminate is bonded to a substrate. Since the test results also depend on the substrate, the adhesive and the bonding technique Reaction to fire applied, the composite manufacturer is responsible for the correct execution of the test in accordance with the applicable standards and test methods required for the specific application field OTHER PROPERTIES Suitability for use as work and nonwork surfaces of food service equipment on which direct food contact during normal preparation or holding operations is not intended, expected, or reasonable NSF certified NSF/ANSI 35 Ivaiene Suitability

		interface, expected, or readenable		
Formaldehyde emission	EN 13986	Formaldehyde emission rating	Rating	E1
Volatile Organic Chemical Emissions	Greenguard Certification Low Chemical Emission UL 2818	Volatile Organic Chemical emissions	Suitability	Greenguard certified
Food contact	Regulation EU n° 10/2011 and following amendments	Food Contact Materials performance	Suitability	Compliant - conditions of use reported in the Declaration of conformity

Note to laminates with adhesive protective film The protective films are designed for temporary surface protection against dirt, scratches and tool marks; they are not designed for protection against corrosion, humidity or chemicals. The laminates covered with the protective film shall be stored in a clean, dry place at room temperature (optimum 20°C), avoiding weathering and UV exposure. The protective film must be removed from the surface of the laminates after the application and before putting into use the finite element. In any case, the removed must be made within six months from the date of shipment by Arpa Industriale Arpa Industriale cannot be responsible for the misuse of the laminates active covered with the protective film, nor for the consequences for non-recommended applications.

Note to surface wear resistance In the case of structured finishes, the surface wear resistance values may be 10 or more revolutions lower then the nominal values in proportion to how much more is accentuated the shape

Discalaimer
The Material Properties Data Sheet provides technical information relevant to the performance of the product as tested by tby Arpa Industriale or certified testing body.
Any information contained within this document must be verified and tested for suitability by the user for his or here particular purpose or specific application. Consideration needs to be given to local or specific circumstances. The content of this document reflects our knowledge
and experience at the time of publication. The newest version of the document replaces all previous versions. We advise that the newest version may contain technical changes that must be taken into account when using the products. The latest version of the document may be
consulted on our website www.arpaindustriale.com. Customers should always check whether an updated version of the document is available. We have made every effort to ensure the accuracy of the information in this document, but it cannot be held liable for any oversights, inaccuracies or typographical errors. Arpa Industriale will not assume any liability if the end-user or customer refer to any other technical information of the products.

Arpa