PURICELLI
DECORATIVE SURFACES

MIXIS HR | COMPACT

MATERIAL PROPERTIES DATA SHEET

DEKO-TECH

MIXIS HR COMPACT is a non-porous homogeneous high-density material produced by simultaneous application of heat and pressure.
The core is composed of paper impregnated with aminoplastic thermosetting resins. The decorative surface is made of real aluminum coated with a special resin suitable for horizontal application

PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	VALUES	UNIT
GENERAL PROPERTIES				
Surface quality	EN 438-2:2016 Par. 4	Spots, dirt and similar surface defects Fibers, hair and scratches	≤ 1 ≤ 10	mm^2/m^2 mm/m^2
Dimensional tolerances	EN 438-2:2016 Par. 5	Thickness [1]	± 0,20 2,0 ≤ t < 3,0 ± 0,30 3,0 ≤ t < 5,0 ± 0,40 5,0 ≤ t < 8,0 ± 0,50 8,0 ≤ t < 12,0 ± 0,60 12,0 ≤ t < 16,0	mm
	EN 438-2:2016 Par. 6	Length and width	+ 10 / - 0	mm
	EN 438-2:2016 Par. 7	Straightness of edges	≤ 1,5	mm/m
	EN 438-2:2016 Par. 8	Squareness	≤ 1,5	mm/m
	EN 438-2:2016 Par. 9	Flatness (measured on full-size sheet)	≤ 10,0 2,0 ≤ t < 6,0 ≤ 7,0 6,0 ≤ t < 10,0 ≤ 5,0 t ≥ 10,0	mm/m
PHYSICAL PROPERTIES				
Dimensional stability at elevated temperatures	EN 438-2:2016 Par. 17	Cumulative dimensional change	≤ 0,4 2,0 ≤ t < 5,0 ≤ 0,3 t ≥ 5,0	Longitudinal % [2]
			≤ 0,8 2,0 ≤ t < 5,0 ≤ 0,6 t ≥ 5,0	Transversal % [2]
Resistance to impact by large diameter ball	EN 438-2:2016 Par. 21	Drop height Indent diameter	≥ 1400 2,0 ≤ t < 6,0 ≥ 1800 t ≥ 6,0 ≤ 10	mm
Density	EN ISO 1183	Density	≥ 1,35	g/cm^3
Flexural modulus	EN ISO 178	Stress	≥ 9000	MPa
Flexural strength	EN ISO 178	Stress	≥ 80	Mpa
SURFACE PROPERTIES				
Resistance to surface wear	EN 438-2:2016 Par. 10	Initial point	≥ 100	Revolutions
Resistance to dry heat (160°C)	EN 438-2:2016 Par. 16	Appearance	≥ 5	Rating
Resistance to wet heat (100°C)	EN 438-2:2016 Par. 18	Appearance	≥ 5	Rating
Resistance to scratching	EN 438-2:2016 Par. 25	Force	≥ 3	Rating
Resistance to staining	EN 438-2:2016 Par. 26	Appearance	≥ 4 groups 1 & 2 ≥ 4 group 3	Rating
Light Fastness (Xenon-arc)	EN 438 -2:2016 Par. 27	Contrast	≥ 4	Grey scale rating
ENVIRONMENTAL PROPERTIES				
Formaldehyde emission	EN 13986	Formaldehyde emission rating	E1	Rating
Phenol Free [3]	AFNOR NF EN ISO 16000-9	Phenol emission	< 0,002	mg/m^3

Notes
(1) t: nominal thickness [mm]
(2) Longitudinal: parallel to the fiber direction (usually parallel to the direction of sanding). Transversal: at right angles to the fiber direction
(3) Phenol is not used as raw material in MIXIS HR production. 0,002 mg/m^3 is the detection limit (DL) value of the test.

Note to MIXIS HR sheets 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 (40 to 60 RH%) at room temperature (20 to 25 °C), avoiding weathering and UV exposure. In any case, the removal must be made within four months from the date of shipment by Puricelli. Puricelli cannot be responsible for the misuse of the laminates covered with the protective film, nor for the consequences for non-recommended applications.