



FENIX NTMi is an innovative material created for interior design by Arpa Industriale. It is produced by the simultaneous application of heat (approx. 150 °C) and high specific pressure (> 7 MPa) in

order to have a homogeneous non-porous high density product.
The core structure of FENIX NTMI is composed of kraft paper impregnated with thermosetting resins. Its external surface involves the use of nanotechnology and its decor is obtained through next generation resins developed thanks to Arpa Industriales research.
FENIX NTMI is material which stands out for specific features such as: high resistance to scratches and to dry heat, anti-fingerprint, soft touchness, low light reflectivity, thermal healing of microscratches, enhanced anti-bacterial properties.
FENIX NTMI is suitable for different interior design applications: kitchens, hospitality, healthcare, bathrooms, furniture (tables, bookshelves, partitions, chairs, etc.).

FENIX NTMi is a registered trademark by Arpa Industriale.

				STANDARD MULTICOLOR EVOLUTIO	
PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT	VALUES	
		SURFACE QUALITY			
rface quality	EN 438-2.4	Spots, dirt and similar surface defects Fibres, hair and scratches	mm²/m² mm/m²	m1 m10	
		DIMENSIONAL TOLERANCES			
	EN 438-2.5	Thickness tolerance	mm	0.9 ± 0.10 1.2 ± 0.18	
	EN 438-2.6	Length and width	mm	+ 10 / - 0	
Dimensional tolerances	EN 438-2.7	Straightness of edges	mm/m	m1,5	
	EN 438-2.8	Squareness	mm/m	m 1,5	
	EN 438-2.9	Flatness (measured on full-size sheet)	mm/m	m60 m100	
		GENERAL PROPERTIES			
sistance to surface wear	EN 438-2.10	Initial Point Wear value	Revolutions Revolutions	- 200 - 350	
sistance to immersion in boiling water	EN 438-2.12	Appearance	Rating	⁻ 4	
sistance to water vapour	EN 438-2.14	Appearance	Rating	- 4	
sistance to dry heat (180°C/20 1)	EN 438-2.16	Appearance	Rating	- 4	
sistance to wet heat (100°)	EN 12721:1997	Appearance	Rating	- 4	
		Cumulative dimensional change	Longitudinal %	m0,55 m0,80	
nensional stability at high temperatures	EN 438-2.17	Cumulative dimensional change	Transversal %	m1,05 m1,40	
sistance to impact with small diameter ball	EN 438-2.20	Spring force	N	⁻ 21	
sistance to impact with large diameter ball	EN 438-2.21	Drop height Indentation diameter	mm mm	- 800 m8	
sistance to cracking	EN 438-2.23	Appearance	Rating	⁻ 4	
sistance to scratching	EN 438-2.25	Appearance	Rating	⁻ 4	
sistance to staining	EN 438-2.26	Appearance - Group 1 and 2 Appearance - Group 3	Rating Rating	- 5 - 4	
ht fastness (Xenon-arc)	EN 438-2.27	Contrast	Grey scale rating	- 4	
sistance to cigarette burns	EN 438-2.30	Appearance	Rating	⁻ 3	
face specular reflectance	ISO 2813	Surface specular reflectance	Gloss unit	indicative values 0,2 at 20°, 1,5 at 60°, 10 at 85°	
ectrostatic property	EN 61340-4-1	Surface electrical resistance	Ω	values between 1 x 10 ⁹ and 1 x 10 ¹²	
nsity	EN ISO 1183	Density	g/cm ³	⁻ 1,35	
sistance to microscratches	EN 16094	Resistance to micro-scratches	Method A Method B	MSR-A2 solid black - MSR-A1 dark printing MSR-B2 solid black - MSR-B1 dark printing	
	1	FIRE PERFORMANCES			
	The Peaction to Fire of FENIX NTM is		ningte of EENIY NTM is bonde	d to a substrate. The results may be different depending on the su	
action to fire	the glue and the bonding techniques a		site panel is under the responsi	bility of the panel manufacturer. For its own laminates, Arpa has s	
		OTHER PROPERTIES			
ids resistance	SEFA 8-PL-2010 method 8.1	Chemical Spot Test	passing/not passing	passing	
rmaldehyde emission	EN 717- 2 EN 13986	Gas analysis Formaldehyde emission rating	mg/(m ² x h) rating	0,2 - 0,4 E1	
giene	NSF	NSF/ANSI 35	passing/not passing	passing	
Volatile Organic Chemical Emissions	Greenguard IAQ according to EPA TO-17 and ASTM D 6196	Individual VOCs	TLV	m0,1	
		Formaldehyde TVOC	ppm mg/m³	m0,025 m0,25	
	EPA TO-11A and ASTM D 5197	Total Aldehydes Total Particles	ppm / ppb mg/m³	m0,05 m0,05	
	EN 1186-3			< 10	
ntact with food - Overall migration	EN 1186-3 EN 1186-3 EN 1186-14 EN 1186-14	3% acetic acid 24h at 40°C 50% ethanol 24h at 40°C 95% ethanol 24h at 40°C isooctane 24h at 40°C	mg/dm²	< 10 < 10 < 10 < 10	
ntact with food - Formaldehyde specific migration	EN 13130-23	3% acetic acid 24h at 40°C	mg/kg	< 15	
aluation of micro-organisms action	JIS Z 2801	Antimicrobial activity after 24h at 35°C	bacterial viability: - Log reduction	> 2,4	

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 shall be removed from the laminates under each with it is months from the date of delivery from Arpa Industriale. Arpa Industriale cannot be responsible for the misuse of the laminates covered with the protective film, nor for the consequences for non-recommended applications.

Disclaimer

The Product Technical Sheets provide all the technical information relevant to the performance of the product as tested by Arpa Industriale or certified testing agencies. Arpa Industriale maintains the right to change and alter the product composition and production process and theneby the performance characteristics of the product at all times, are reported to the Arpa Industriale website. Customers and end-users of the product are requested to check for the attest technical information regarding the products performance on the website of Arpa Industriale, in every contractual relationship, will refer only to the technical information published on its website. Arpa Industriale will not assume any liability if the end-user or customer refer to any other technical information of the products.

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