

LABOLAM

conformity to EN 438: 2005

Compat laminate with high resistance to chemical agents, for use as working surfaces in laboratories.



Properties	Method	Results
Structure		6 to 19 mm, double sided, black core
Thickness tolerance	EN 438-4-6.3	6 ± 0,40 mm 8 ± 0,50 mm 10 ± 0,50 mm 12 ± 0,60 mm 13 ± 0,60 mm 14 ± 0,60 mm 16 ± 0,70 mm 18 ± 0,70 mm 19 ± 0,70 mm
Surface reflectance (finish R)	UNI 9149-87	20 to 35 gloss depending on color
Resistance to surface wear revolutions	EN 438-2-10	plain colors: ≥ 1000 other colors: ≥ 1500
Resistance to immersion in boiling water (2h a 100°C) - mass increase - thickness increase - appearance	EN 438-2-12	≤ 2% ≤ 2% Rating ≥ 4
Resistance to dry heat (180°C/20')	EN 438-2-16	Rating ≥ 4
Resistance to wet heat (100°C/20')	EN 12721:1997	Rating ≥ 4
Dimensional stability at elevated temperatures - machine direction (Longitudinal) - cross machine direction (Transversal)	EN 438-2-17	≤ 0,30 % ≤ 0,60 %
Dimensional stability at ambient temperature - machine direction (Longitudinal) - cross machine direction (Transversal)	EN 438-2-18	≤ 0,20 % ≤ 0,30 %
Resistance to impact with large diameter ball	EN 438-2-21	1800 mm
Resistance to scratching	EN 438-2-25	Rating 3 (2-3 N) depending on decor
Resistance to chemicals, solvents, gases, and corrosive acid vapours	Norma ARPA	Lists 1,2,3 e 4
Resistance to colour change in Xenon arc light (depending on color)	EN 438-2-27 EN 20105A02	Grey scale Rating ≥ 4
Resistance to cigarette burns	EN 438-2-30	Rating ≥ 3
Resistance to steam	EN 438-2-14	Rating ≥ 4
Resistance to crazing	EN 438-2-24	Rating ≥ 4
Flexural modulus (MEF)	EN ISO 178	≥ 10.000 Mpa
Flexural strength	EN ISO 178	≥ 100 Mpa
Tensile strength	EN ISO 527	≥ 70 Mpa
Water resistance PH5 - 500 hrs at 23°C - mass increase - thickness increase	Norma ARPA	≤ 2% ≤ 2%
Thermal conductivity	EN 12664	0,25 W/m K
Density	EN ISO 1183-1	≥ 1,40 g/cm³
Surface electrical resistivity	CECC STD 00015 NFPA99	Antistatic 10 ¹⁰ Ω ÷ 10 ¹² Ω
Flatness (measured on full size panel)	EN 438-4-6.3	Maximum deviation 5mm/m
Evaluation of action of micro-organisms - methods A+C	EN ISO 846/97	Biostatic
Contact with foodstuffs	EN 1186-CEE 310	Suitable
Pentachlorophenol (PCP)	Prüftechnik nr.01.71.2569.94	Absent
Formaldehyde emission	EN 717-2 EN 717-1	< 0,4 mg/h m² < 0,05 ppm (WKI Chamber Method)
Reaction to fire	UNI 8457 - 9174	Class 2; Class 1 available on request
Smoke density	NF F 16101/102	Class F1