

**ASD LABGRADE COMPACT LAMINATES** ; having thickness 2 mm or greater, according to EN 438-4, consisting of a surface of decorative paper(s), one or both sides, impregnated with melamine resins and a core made of layers of kraft paper impregnated with phenolic resins. These laminates are self-supporting they are ready for installation.

PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT (max or min)	VALUES
<b>SURFACE QUALITY</b>				
Surface Quality	EN 438-4	Spots, dirt and similar surface defects	mm <sup>2</sup> /m <sup>2</sup>	≤1
		Fibres, hairs and scratches	mm/m <sup>2</sup>	≤10
<b>DIMENSIONAL TOLERANCES</b>				
Dimensional Tolerances	EN 438-2.5	Thickness tolerance	mm	2,0≤t<3,0:±0,20
			mm	3,0≤t<5,0:±0,30
			mm	5,0≤t<8,0:±0,40
			mm	8,0≤t<12,0:±0,50
			mm	12,0≤t<16,0:±0,60
			mm	16,0≤t<20,0:±0,70
			mm	20,0≤t<25,0:±0,80
	EN 438-2.6	Lenght and width	mm	+10/-0
	EN 438-2.7	Straightness of edges	mm/m	≤1,5
	EN 438-2.8	Squareness	mm/m	≤1,5
EN 438-2.9	Flatness	mm/m	2,0≤t<6,0:≤8	
		mm/m	6,0≤t<10:≤5	
		mm/m	10,0≤t:≤3	
<b>GENERAL PROPERTIES</b>				
Resistance to surface wear	EN 438-2.10	Initial point	Revolutions	≥550
		Wear value	Revolutions	
Resistance to immersion in boiling water	EN 438-2.12	Mass increase - 2≤t<5	%	5,0 / 7,0
		Mass increase t≥5	%	2,0 / 3,0
		Thickness increase 2≤t<5	%	6,0 / 9,0
		Thickness increase t≥5	%	2,0 / 6,0
		Appearance-Gloss Finish	Rating (min)	3
		Appearance-Other Finish	Rating (min)	4
Resistance to water vapour	EN 438-2.14	Appearance-Other Finish	Rating (min)	4
Resistance to dry heat (180°C)	EN 438-2.16	Appearance-Other Finish	Rating (min)	4
Resistance to weat heat (100 °C)	EN 12721:2010	Appearance-Other Finish	Rating (min)	4
Dimensional stability at elevated temperature	EN 438-2.17	Cumulative dimensional change 2≤t<5	Longitudinal %	≤0,40
		Cumulative dimensional change t≥5	Longitudinal %	≤0,40
		Cumulative dimensional change 2≤t<5	Transversal %	≤0,80
		Cumulative dimensional change t≥5	Transversal %	≤0,60
Resistance to impact with large diameter ball	EN 438-2.21	Indentation diameter 2≤t<6	mm	h 1400/ d≤10
		Indentation diameter t≥6	mm	h 1800/ d≤10
Resistance to crazing	EN 438-2.24	Appearance	Rating (min)	4
Resistance to scratching	EN 438-2.25	Appearance-Smooth Finish	Rating (min)	2
		Appearance-Textured Finsh	Rating (min)	3
Light fastness (Xenon-arc)	EN 438-2.27	Contrast	Grey scale rating	4
Flexural modulus	EN ISO 178	Stress	Mpa (min)	9000
Flexural Strength	E NISO 178	Stress	Mpa (min)	80
Tensile Strength	EN ISO 527-2	Stress	Mpa (min)	60
Density	EN ISO 1183	Density	g/cm <sup>2</sup>	≥1,35
<b>FIRE PERFORMANCES</b>				
Reaction to fire	EN 13823	Classification- t: 6 mm-10 mm	Classification	D-s2,d0
<b>OTHER PROPERTIES</b>				
Formaldehyde emission	EN 717-2	Gas analysis	mg/(m <sup>2</sup> h)	0,5
		Classification	Rating	E1

### RESISTANCE TO STAINING (24 HOURS);

Amonyum Hydroxide, Sodium Hydroxide,Chloric Acid(%28),Silver Nitrate(%20),Ferric(III)(%60),Sodium Nitrate(%1),Ethyl Alcohol,N-Hexane,Methyl Alcohol,Toluene,Xylene, Methylene Blue, Copper Sulphate, Ether, Hydrochloric Acid, Sulphate Acid (%33), Nitric Acid(%30), Phosphoric Acid(%45)