ASD INTERIOR COMPACT LAMINATE
TECHNICAL DATA SHEET

ASD INTERIOR COMPACT LAMINATE ; having thickness 2 mm or greater, according to EN 438-4:2008 ,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. They are available the types CGS and CGF.

CGS	Standard Grade Compact Laminate	**EXAMPLES OF TYPICAL APPLICATIONS**
CGF	Fire Retardant Grade Compact Laminate	Wall cladding, partitions doors, cubicles, locker, laboratory bench tops,and various self-supporting components in construction marine and transport industries

PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT (max or min)	VALUES	
				CGS	CGF
SURFACE QUALITY					
Surface Quality	EN 438-4	Spots, dirt and similar surface defects	mm^2/m^2	≤1	
		Fibres, hairs and scratches	mm/m^2	≤10	
DIMENSIONAL TOLERANCES					
Dimensional Tolerances	EN 438-2.5	Thickness tolerance	mm	2,0≤t<3,0: +/-0,20 3,0≤t<5,0: +/-0,30 5,0≤t<8,0: +/-0,40 8,0≤t<12,0: +/-0,50 12,0≤t<16,0: +/-0,60 16,0≤t<20,0: +/-0,70 20,0≤t25,0<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: ≤8,0	
			mm/m	6,0≤t<10: ≤5,0	
			mm/m	10,0≤t: ≤ 3,0	
GENERAL PROPERTIES					
Resistance to surface wear	EN 438-2.10	Initial Point	Revolutions	≥ 150	
		Wear Value	Revolutions	≥ 350	
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-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Resistance to dry heat (180°C)	EN 438-2.16	Appearance-Gloss Finish	Rating (min)	3 3	
		Appearance-Other Finish	Rating (min)	4 4	
Resistance to weat heat (100 °C)	EN 12721:2010	Appearance-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Dimensional stability at elevated temperature	EN 438-2.17	Cumulative dimensional change 2≤t<5 mm	Longitudinal (%)	≤ 0,40	
		Cumulative dimensional change 2≤t<5 mm	Transversal (%)	≤ 0,80	
		Cumulative dimensional change 5 mm ≤ t	Longitudinal (%)	≤ 0,30	
		Cumulative dimensional change 5 mm ≤ t	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 finish	Rating (min)	3	
Resistance to staining	EN 438-2.26	Appearance- Group 1&2	Rating (min)	5	
		Appearance- Group 3	Rating (min)	4	
Light fastness (Xenon-arc)	EN 438-2.27	Contrast	Grey scale rating	4	
Flexural modulus	EN ISO 178	Stress	Mpa (min)	9000	
Flexural strength	EN ISO 178	Stress	Mpa (min)	80	
Tensile strength	EN ISO 527-2	Stress	Mpa (min)	60	
Density	EN ISO 1183	Density	g / cm^3 (min)	1,35	
FIRE PERFORMANCES					
Reaction to fire / CGS	EN 13823	Classification t: 6 mm – 10 mm	Classification	D-s2,d0	
Reaction to fire / CGF	EN 13823	Classification (t: 6 mm)	Classification	B-s2,d0	
OTHER PROPERTIES					
Formaldehyde emission	EN 717-2	Gas analysis	$mg/(m^2*h)$	0,5	
		Classification	Rating	E1	