

ASD EXTERIOR GRADE COMPACT LAMINATE

TECHNICAL DATA SHEET



ASD EXTERIOR GRADE COMPACT LAMINATE ; having thickness 2 mm or greater, according to EN 438-6, 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. They laminates are self-supporting they are ready for installation. They are available the types CGS and CGF.

EGS / EDS	Standard compact laminate for using outdoor conditions.	EXAMPLES OF TYPICAL APPLICATIONS Kitchen and office work surfaces, restaurants and hotel tables, public open area doors, walls and so on. the surfaces of the spaces, the inner surfaces of public transport vehicles.
EGF / EDF	Fire resistant compact laminate for using outdoor conditions.	EXAMPLES OF TYPICAL APPLICATIONS Wall coverings, screens, doors, cabinets, material cupboards, laboratory bench tops, construction, maritime, transportation areas that require some resistance to fire.

PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT (max or min)	VALUES	
				EGS / EDS	EGF / EDF

SURFACE QUALITY

Surface quality	EN 438-6	Spots, dirt and similar surface defects	mm ² /m ²	≤1	
		Fibres, hairs and scratches	mm/m ²	≤10	

DIMENSIONAL REQUIREMENTS

Dimensional tolerances	EN 438-2. 5	Thickness tolerance (t: nominal thickness)	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≤t<25,0<25,0: +/-0,80	
	EN 438-2.6	Length 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

Flexural modulus	EN ISO 178	Stress	Mpa (min)	9000	9000
Flexural strength	EN ISO 178	Stress	Mpa (min)	80	80
Tensile strength	EN ISO 527-2	Stress	Mpa (min)	60	60
Density	EN ISO 1183-1	Density	g / cm ³ (min)	1,35	1,35
Resistance to impact with large diameter ball (shatter resistance)	EN 438-2. 21	Drop height(h)/indentation diameter(d)	mm	2,0≤t<6,0: h=1400/d≤10	
		Drop height(h)/indentation diameter(d)	mm	6 ≤ t: h=1800/d≤10	
Resistance to wet conditions	EN 438-2. 15	Mass increase	% (max.) 2≤t<5	7	10
			% (max.) 5≤t	5	8
		Appearance	Rating (min)	4	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	Transveral (%)	≤ 0,80	
		Cumulative dimensional change 5 mm ≤ t	Longitudinal (%)	≤ 0,30	
		Cumulative dimensional change 5 mm ≤ t	Transveral (%)	≤ 0,60	
Resistance to climatic shock	EN 438-2. 19	Appearance	Rating	4	
		Flexural strength	Rating (min)	0,95	
		Flexural modulus	Rating (min)	0,95	
Resistance to UV light	EN 438-2. 28	Contrast (after 1500 hours of exposure)	Grey scale rating (min)	(Not needed)	3
		Appearance (after 1500 hours of exposure)	Rating (min)	(Not needed)	4
Resistance to artificial weathering	EN 438-2. 29	Contrast	Grey scale rating (min) (notworse than)	3 (after 325 j/m ² radiant exposure)	3 (after 650 MJ/m ² radiant exposure)
		Appearance	Rating (min)	4 (after 325 j/m ² radiant exposure)	4 (after 650 MJ/m ² radiant exposure)

OTHER PROPERTIES

Reaction to fire	EN 13823	Reaction to fire	Classification	D-s2,d0 ≤	
Reaction to fire	EN 13823	Reaction to fire (6 mm ≤ t)	Classification		B-s2,d0
Reaction to fire	EN 13823	Reaction to fire (6 mm > t)	Classification		B-s2,d0 ≤