

## COLORED CORE LAMINATE TECHNICAL DATA SHEET

**ASD COLORED CORE LAMINATE;** according to EN 438-9, consisting of a surface of decorative paper (s) impregnated with aminoplastic resins and core of which consist of cellulosic fibrous layers impregnated with thermosetting resins. They are available the types BTS and BCS.

<b>BTS</b>	Coloured Core Standard thin laminates ( < 2 mm )					
<b>ATP</b>	Coloured Core Standard compact laminates ( ≥ 2 mm )					
PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT (max veya min)	VALUES		
				BTS	BCS	
<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 tolerances ( t: nominal thickness )	mm	0,5≤t≤1 : +/-0,15	2,0≤t<3,0:±0,25	
			mm	1,0<t<2,0 : +/-0,18	3,0≤t<5,0:±0,40	
			mm	-	5,0≤t<8,0:±0,50	
			mm	-	8,0≤t<12,0:±0,70	
	EN 438-2.6	Length and width	mm	+10/-0		
	EN 438-2.7	Staightness of edges	mm/m	≤1,5		
	EN 438-2.8	Squareness	mm/m	≤1,5		
	EN 438-2.9	Flatness	mm/m	100	2,0≤t<6,0:≤12,0	
			mm/m		6,0≤t<10:≤8,0	
			mm/m		10,0≤t: ≤5,0 10,0≤t:≤3,0	
<b>GENERAL PROPERTIES</b>						
Resistance to surface wear	EN 438-2.10	Initial point	Revolutions (min)	≥150		
		Wear value	Revolutions (min)	≥350		
Resistance to immersion in boiling water	EN 438-2.12	Appearance- Gloss finish	Rating (min)	3		
		Appearance- Other finish	Rating (min)	4		
		Mass increase	% max 2,0≤t<5,0	-	5,0	
			% max t≥5,0	-	3,0	
		Thickness increase	% max 2,0≤t<5,0	-	6,0	
% max t≥5,0	-		4,0			
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		
		Appearance- Other finish	Rating (min)	4		
Dimensional stability at elevated temperature	EN 438-2.17	Cumulative dimensional change	t< 2,0 Longitudinal %	0,8	-	
			t< 2,0 Transversal %	1,4	-	
			2,0≤t≤5,0 Longitudinal %	-	0,6	
			2,0≤t≤5,0 Transversal %	-	1	
			t≥5 Longitudinal %	-	0,5	
			t≥5 Transversal %	-	0,8	
Resistance to crazing	EN 438-2.24	Appearance	Rating (min)	-	Surface: 4 Core: 3	
Resistance to scratching	EN 438-2.25	Appearance- Gloss finish	Rating (min)	2		
		Appearance- Other finish	Rating (min)	3		
Resistance to staining	EN 438-2.26	Appearance- Groups 1&2	Rating (min)	5		
		Appearance- Group 3	Rating (min)	4		
Light fastness (xenon arc)	EN 438-2.27	Contrast	Grey scale rating	Surface: 4 Core: 3		
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 1183-1	Density	g/cm <sup>3</sup>	≥ 1,40		