

PEARLESCENT LAMINATE TECHNICAL DATA SHEET

ASD PEARLESCENT LAMINATES; Less than 2 mm, or 2 mm. and greater thickness, according to EN 438-8, surface material of which consists of a pearlescent affect decorative paper, which is impregnated with melamine resin and a core made of layers of kraft paper impregnated with phenolic based resins. They are available the types ATS, ATP, ACS

ATS	Pearlescent Standard Grade Thin Laminate (< 2 mm)					
ATP	Pearlescent Postforming Grade Thin Laminate (< 2 mm)					
ACS	Pearlescent Standard Grade Compact Laminate					
PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT (max or min)	VALUES		
				ATS	ATP	ACS
SURFACE QUALITY						
Surface Quality	EN 438-8	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	0,5≤t≤1 : +/-0,10		2,0≤t<3,0:±0,20
			mm	1,0<t<2,0 : +/-0,15		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	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	60		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 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≤t5	-		5,0
			% max t≥5	-		2,0
		Thickness Increase	% max 2,0≤t5	-		6,0
% max t≥5	-			2,0		
Resistance to water vapour	EN 438-2.14	Appearance	Rating (min)	3		
Dimensional stability at elevated temperature	EN 438-2.17	Cumulative dimensional change	t< 2,0 Longitudinal %	0,75		-
			t< 2,0 Transversal %	1,25		-
			2,0≤t≤5,0 Longitudinal %	-		0,4
			2,0≤t≤5,0 Transversal %	-		0,8
			t≥5 Longitudinal %	-		0,3
			t≥5 Transversal %	-		0,6
Resistance to impact by small diameter	EN 438-2.20	Spring force	N	≥15		-
Resistance to impact by large diameter	EN 438-2.21	Drop height	mm	-		800
		Indent diameter	mm	-		12
Resistance to cracking under stress	EN 438-2.23	Appearance	Rating (min)	4		-
Resistance to crazing	EN 438-2.24	Appearance	Rating (min)	-		4
Resistance to scratching	EN 438-2.25	Appearance	Rating (min)	2		
Resistance to staining	EN 438-2.26	Appearance- Groups 1&2	Rating (min)	5		
		Appearance- Grup 3	Rating (min)	4		
Light fastness (xenon ark)	EN 438-2.27	Contrast	Grey scale rating (min)	4 to 5		
Flexural modulus	EN ISO 178	Stress	Mpa (min)	-		9000
Flexural strength	EN ISO 178	Stress	Mpa (min)	-		80
Density	EN ISO 1183-1	Density	g/cm ³	≥1,35		