

Technical specification

Certified according to ISO 9001 / ISO 14001

Grade	ALGRO DESIGN DUO ADD	Customer	Europapier
Product description	Solid bleached board (SBB) woodfree, white, silk, both sides symmetrically double coated, high UV-light fastness and high resistance to ageing. Suited for direct food contact in accordance with recommendation BfR XXXVI, FDA and Austrian food legislation, taint and odour neutral. Optionally available as PEFC and FSC.		
Conversion	Lacquering - UV, water based and conventional, foil and film lamination, hot foil stamping and cold foil transfer, embossing (high, relief, structure, micro), die cutting, creasing, grooving, perforating, flock coating, laserodable.		
Application	High quality packaging and graphic applications.		
Printing	Offset, screen and flexographic printing		

Test climate 23° C, 50 % relative humidity, DIN EN 20 187
All rights to improve quality due to technical modifications reserved

Form number: AA-PQM-029-01/A 09/2015

Revision: E 01/2016 ersetzt D 03/2014

Property	Unit	Standard	Target value						Tolerance
Grammage	g/m ²	ISO 536	250.0	270.0	300.0	330.0	360.0	380.0	± 5.0%
Thickness	µm	ISO 534	270.0	290.0	335.0	375.0	410.0	450.0	± 5.0%
Bending force (15°/50 mm) MD	mN	ISO 5628 2493	130.0	180.0	255.0	350.0	460.0	590.0	± 15.0%
Bending force (15°/50 mm) CD	mN	ISO 5628 2493	65.0	88.0	140.0	190.0	240.0	315.0	± 15.0%
Bending moment (15°) MD	mNm	Taber T489-om-92	6.3	8.7	12.3	16.9	22.2	28.5	± 15.0%
Bending moment (15°) CD	mNm	Taber T489-om-92	3.1	4.3	6.8	9.2	11.6	15.2	± 15.0%
Bending stiffness (5°/50 mm) MD	mNm	DIN 53121	12.5	16.3	23.9	31.4	42.7	55.3	Reference value
Bending stiffness (5°/50 mm) CD	mNm	DIN 53121	7.5	10.0	13.8	18.8	23.9	30.2	Reference value
Whiteness (R457) top side	%	ISO 2470	101.5 ± 1.5	101.5 ± 1.5	101.5 ± 1.5	101.5 ± 1.5	101.5 ± 1.5	101.5 ± 1.5	
Whiteness (CIE) top side	%	ISO 11475	132.0	132.0	132.0	132.0	132.0	132.0	Reference value
L-value top side	%	ISO 5631	95.5 ± 1.0	95.5 ± 1.0	95.5 ± 1.0	95.5 ± 1.0	95.5 ± 1.0	95.5 ± 1.0	
a-Value coated side	%	ISO 5631	2.0 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	
b-value top side	-	ISO 5631	-9.0 ± 1.0	-9.0 ± 1.0	-9.0 ± 1.0	-9.0 ± 1.0	-9.0 ± 1.0	-9.0 ± 1.0	
Whiteness (R457) rev. side	%	ISO 2470	101.5 ± 1.5	101.5 ± 1.5	101.5 ± 1.5	101.5 ± 1.5	101.5 ± 1.5	101.5 ± 1.5	
Whiteness (CIE) rev. side	%	ISO 11475	132.0	132.0	132.0	132.0	132.0	132.0	Reference value
L-value rev. side	%	ISO 5631	95.5 ± 1.0	95.5 ± 1.0	95.5 ± 1.0	95.5 ± 1.0	95.5 ± 1.0	95.5 ± 1.0	
a-value rev. side	%	ISO 5631	2.0 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	
b-value rev. side	-	ISO 5631	-9.0 ± 1.0	-9.0 ± 1.0	-9.0 ± 1.0	-9.0 ± 1.0	-9.0 ± 1.0	-9.0 ± 1.0	
Surface roughness top side	µm	ISO 8791/4	1.80 ± 0.60	1.80 ± 0.60	1.80 ± 0.60	1.80 ± 0.60	1.80 ± 0.60	1.80 ± 0.60	
Surface roughness reverse side	µm	ISO 8791/4	1.80 ± 0.60	1.80 ± 0.60	1.80 ± 0.60	1.80 ± 0.60	1.80 ± 0.60	1.80 ± 0.60	
Moisture content abs.	%	DIN EN ISO 287	5.5						± 1.0