

AIRDEC-F1

AIRDEC-F1 is a vacuum formable lightweight decorative laminate; fulfilling the latest and most stringent requirements of heat release, smoke emission and toxicity.

WEIGHT	AIRDEC-F1 is a <u>lightweight</u> material that helps to reduce weight.	
DESIGN	AIRDEC-F1 is available in unlimited design variations. Additionally we offer two special products:	
	<ul style="list-style-type: none"> • AIRDEC ARTPRINT • AIRDEC-WG (Wood Grain) 	
TEXTURE	Based on its special construction, AIRDEC-F1 has excellent texture retention.	
CLEANING	Owing to its surface of Tedlar® and special texture designs, AIRDEC-F1 can be cleaned extremely easily.	
ADHESIVE	AIRDEC-F1 can be supplied with heat activated or pressure sensitive adhesive according to the desired processing. Also many other conventional adhesives can be used.	
CUSTOMER ORIENTATION	AIRDEC-F1 is offered and supplied in sizes that comply with practical use, thus guaranteeing optimal storage properties and optimal reduction of waste.	
APPEARANCE	Based on its special construction and our experience for decades concerning texturing we guarantee durable optical impressions regarding the quality of colour and texturing.	
TYPICAL APPLICATIONS:	Dado panels Galley walls Storage bins Trolleys Window panels	Lavatory walls PSU Ceiling panels Bulkheads
SIZES:	N 1372 x 2440 mm X 1525 x 2440 mm other sizes upon request	M 1372 x 1525 mm

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CHARACTERISTIC	TEST METHOD	UNIT	TEST VALUE
GAUGE	measured before texturing	inch / mm	0,007 / 0,18
WEIGHT without adh.	ASTM D 461	oz/yd ² / g/m ²	7,1±1 / 240±30
WEIGHT with HAA	ASTM D 461	oz/yd ² / g/m ²	10,0±1 / 340±40
WEIGHT with PSA	ASTM D 461	oz/yd ² / g/m ²	9,7±1 / 330±40
ADHESION OF SURFACE LAYER	DMS 2291	-	pass
ABRASION RESISTANCE	DMS 2290	-	pass
TENSILE STRENGTH	ASTM D 882	psi / N/mm ²	long.d. ≥ 10670 / ≥ 75 tran.d. ≥ 9960 / ≥ 70
DIMENSIONAL STABILITY	ASTM D 1204 60 min/203°F	%	≤ -1,5
COLORFASTNESS TO LIGHT	ASTM - G 53 Q.U.V. UVA-340 bulb	-	50 h no change
HEAT RELEASE	FAR 25.853 (d)/ FAR 25 App.F Pt.IV Amdt.83	kW/m ² kWxmin/m ²	HAA : peak / total ≤50 / ≤55 *) PSA : peak / total ≤50 / ≤55 *) HAA : peak / total ≤37 / ≤32 **) PSA : peak / total ≤40 / ≤40 **)
SMOKE DENSITY	FAR 25.853 (d)/ FAR 25 App.F Pt.V Amdt.83	-	HAA / PSA ≤ 120 / ≤ 100 *) HAA / PSA ≤ 100 **)
TOXICITY	ABD 0031	ppm	HAA/ HF ≤ 70 *) PSA HCl ≤ 120 *) HCN ≤ 10 *) NOx ≤ 10 *) CO ≤ 300 *) H2S+SO2 ≤ 10 *)
FLAMMABILITY (60 sec)	FAR 25.853(d) / FAR 25 App.F Pt.I Amdt.83	inch / mm	HAA / PSA ≤ 5,1 / ≤ 130 ***)
PEEL STRENGTH	ASTM D 3167	lbf / N/25mm	HAA / 158°F (70°C) ≥2,2 / ≥10 **)
CREEP BEHAVIOUR	DAN 419	inch / mm	PSA / 158°F (70°C) ≤ 0,24 / ≤ 6 **)
SHELF LIFE (ADHESIVE)	-	month	39-81 °F / ≤75% r.h. at least 12 ****) 4-27 °C

*) Tested on typical phenolic sandwich panel

**) Tested on aluminum

***) Tested on 2-layers phenolic laminate

****) After this time , we recommend consultation of our technical department