

AIRDEC-AD

AIRDEC-AD is a nonflammable, pressure sensitive adhesive backed, ink-jet printed laminate for aircraft interior advertising graphics, placards, signs, and etceteras that are 144 square inches or less in area¹. AIRDEC-AD is available with changeable or semi-permanent pressure sensitive adhesive.

WEIGHT	AIRDEC-AD is a lightweight laminate.		
FIRE SAFETY	AIRDEC-AD will meet the FAA and JAA flammability requirements for FAR 25.853 (a) Appendix F, Part I, (a), 1, (i): 60 Seconds, when applied to typical interior ceiling panels, wall panels, partitions, and stowage bin components. AIRDEC-AD will meet the FAA and JAA flammability requirements for FAR 25.853 (a) Appendix F, Part I, (a), 1, (ii): 12 Seconds, when applied to typical thermoplastic parts such as tray tables and PSU parts.		
COLOR	AIRDEC-AD is available in any graphic conducive to 4-color ink-jet printing		
SURFACE	AIRDEC-AD is available in a matte, low-gloss surface		
CLEANING	AIRDEC-AD is resistance to staining, mild solvents and chemicals, and abrasion, and is very easy to clean with common cleaners.		
QUALITY	Founded on years of experience, high quality materials, and a very controlled process, the color, surface, and integrity of this product is guaranteed.		
ADHESIVE	AIRDEC-AD is available with a “changeable” pressure sensitive adhesive, or with a “semi-permanent” pressure sensitive adhesive. Adhesives should be tested before actual use to ensure adequate adhesion, and to prevent substrate damage upon removal.		
PROPERTIES	AIRDEC-AD is flexible and can be applied by hand to flat and simple contoured surfaces.		
TYPICAL APPLICATIONS	Tray-Tables Bulkheads Closets	Galleys Lavatories Partitions	Stowbins Ceilings PSU's
FORMAT	AIRDEC-AD is available in sheets up to 144 in ² (3657 mm ²) in area.		

¹ Per the Preamble Information of Amendment 25-83 of 14 CFR Part 25, 144 square inches is the maximum area allowed for this type of product applied to existing parts, such as ceilings, walls, and stowage bins, that also must meet the requirements of Part 25 Appendix F Part IV (heat release rate) and Part V (smoke emissions).

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CHARACTERISTIC	TEST METHOD	UNIT	TEST VALUE
THICKNESS with Changeable PSA C2 with Semi-Permanent PSA P2	Micrometer	inch / mm	0.019±0.001 / 0.48±0.024 0.022±0.0011 / 0.56±0.028
WEIGHT with Changeable PSA C2 with Semi-Permanent PSA P2	ASTM D 461 (11)	oz/yd ² / g/m ²	18.0±0.9 / 610±31 20.6±1.0 / 698±35
ADHESION OF LAYERS	DMS 2415 3.5.4 and 4.5.4 DAN 419 4.1.9	pass / fail	pass
COLORFASTNESS TO LIGHT	DMS 2415 3.5.2 and 4.5.2 FTMS No. 191 Method 5660 AATCC 16-1993, Option E ASTM G 53 QUV UVA-340	pass / fail	pass (no change after 50 fading hours) DE* < 0.50 after 100 fading hours no change after 50 fading hours
FLAMMABILITY (12 sec)	FAR/JAR 25.853 (d) FAR/JAR 25.853 (a) App. F Pt. I, (a), 1, (ii): 12 seconds	pass / fail	pass ¹
FLAMMABILITY (60 sec)	FAR/JAR 25.853 (d) FAR/JAR 25.853 (a) App. F Pt. I, (a), 1, (i): 60 seconds	pass / fail	pass ²
APPLICATION TEMPERATURE with PSA	Experiment	°F / °C	60°F - 80°F / 16°C - 27°C
ADHESIVE PROPERTIES	Experiment	oz/in / g/cm removability oz/in / g/cm removability	24 / 278 ¹ easy 88 / 983 ² moderate to difficult

¹ Tested with changeable pressure sensitive adhesive (PSA C2) on a textured polycarbonate tray table

² Tested with semi-permanent pressure sensitive adhesive (PSA P2) on the Tedlar (PVF) side of AIRDEC-F1 (FA) mounted on a bare 0.125" Thick, 2-ply, 2-ply phenolic-fiberglass Nomex-honeycomb panel