



PRODUCT INFORMATION

AIRDEC-SF LHR LT

AIRDEC-SF LHR LT is a thermoplastic sheet material that can be thermoformed into a variety of aircraft interior parts. AIRDEC-SF LHR LT meets the most stringent heat release, smoke emission, and toxicity requirements for all passenger aircraft cabin interior parts.

THICKNESS

AIRDEC-SF LHR LT is available in the following standard thicknesses: 0.040" (1.0 mm), 0.060" (1.5 mm), 0.080" (2.0 mm), 0.090" (2.3 mm), and 0.125" (3.2 mm). Custom thicknesses may be available upon request.

COLOR

AIRDEC-SF LHR LT is available plain in a natural beige color.

TEXTURE

AIRDEC-SF LHR LT will accurately reproduce textured mold detail during thermoforming.

QUALITY

Founded on years of experience, high quality materials, and a very controlled process, the color, texture, and integrity of this product is guaranteed.

PROPERTIES

AIRDEC-SF LHR LT is a thermoplastic sheet laminate, which exhibits excellent part stiffness and impact resistance. Accurate reproduction of mold detail is attainable in conventional thermoforming operations at forming temperatures of 370°F to 410°F (188°C to 210°C), with molds and plug assists at temperatures of 240°F to 260°F (116°C to 127°C).

TYPICAL APPLICATIONS

Bullnose	Ceilings	Closets
Door Linings	Lavatory Fixtures	PSU Panels
Seat Parts	Stowage Bins	Tray Tables
Trolley Panels	Window Panels	Window Shades

FORMAT

AIRDEC-SF LHR LT is available in sheets nominally 48 inches (1219 mm) wide, by 96 inches (2438 mm) long. Other sizes are available upon request.

AIRDEC-SF LHR LT

CHARACTERISTIC	TEST METHOD	UNIT	TYPICAL VALUES	
THICKNESS	Micrometer before texturing	inch / mm	0.040 / 1.0 0.060 / 1.5 0.080 / 2.0 0.090 / 2.3 0.125 / 3.2	
WEIGHT	ASTM D 461 (11)	oz/yd ² / g/m ²	44 / 1500 66 / 2250 89 / 3000 102 / 3450 142 / 4800	
TENSILE STRENGTH	ASTM D-638	ksi / MPa	10 - 14.5 / 69 - 100	
TENSILE MODULUS	ASTM D-638	ksi / GPa	400 - 610 / 2.76 - 4.21	
FLEXURAL STRENGTH	ASTM D-790	ksi / MPa	16 - 22 / 110 - 152	
FLEXURAL MODULUS	ASTM D-790	ksi / GPa	400 - 610 / 2.76 - 4.21	
IMPACT STRENGTH	GARDENER	in-lb / J	0.080" texture up 0.080" texture down	>320 / >36 80 / 9.0
HEAT DEFLECTION TEMPERATURE	ASTM D-648	°F / °C at 264 psi	298 / 148	
HEAT RELEASE	FAR 25.853 (d) FAR 25 App. F Pt. IV	Pass / Fail	Pass	
SMOKE DENSITY	FAR 25.853 (d) FAR 25 App. F Pt. V ASTM E-662	Pass / Fail	Pass	
FLAMMABILITY (60 sec)	FAR 25.853 (d) FAR 25 App. F Pt. I	Pass / Fail	Pass	
TOXICITY	ATS 1000.001 ISSUE 5 / ABD 0031	pass / fail	Pass	
	Boeing D6-51377 Section 4.1.1 b. (1)	pass / fail	Pass	
DRYING TIME	Experiment	Hours	3 hours at 250°F (121°C) per 0.040 inches (1 mm) of thickness	
FORMING TEMPERATURE	Experiment	°F / °C	370°F - 410°F / 188°C - 210°C	
MOLD / PLUG TEMPERATURE	Experiment	°F / °C	240°F - 260°F / 116°C - 127°C	
MOLD SHRINKAGE	Experiment	in / in mm / mm	0.003 - 0.005 0.003 - 0.005	

Rev.: 001 / November 20, 2002

Notice: The information in this datasheet is given in good faith and is based on our current technical knowledge of this product and on careful tests carried out in our laboratories. No liability is accepted, nor is any guaranty given or implied for any application of this product.