



## PRODUCT INFORMATION

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# AIRDEC-WS LHR

AIRDEC-WS LHR is a decorated thermoplastic sheet laminate that can be thermoformed into aircraft interior parts that require decoration on both sides, such as window shades. AIRDEC-WS LHR meets the <sup>1</sup>FAA heat release and smoke emission requirements for passenger aircraft cabin interior parts.

<b>THICKNESS</b>	AIRDEC-WS LHR is available in thicknesses from 0.020" to 0.060" thick, to provide the optimum balance of part depth and stiffness.
<b>COLOR</b>	AIRDEC-WS LHR is available in an unlimited number of colors and patterns on both sides.
<b>TEXTURE</b>	AIRDEC-WS LHR is available in a wide range of textures on both sides, and it will also accurately reproduce textured mold detail.
<b>GLOSS</b>	AIRDEC-WS LHR is available in both high and medium gloss variations.
<b>CLEANING</b>	Because of its <sup>2</sup> Kynar <sup>®</sup> surfaces, AIRDEC-WS LHR possesses exceptional resistance to staining, <sup>3</sup> solvents, chemicals, and abrasion, and is very easy to clean with common cleaners.
<b>QUALITY</b>	Founded on years of experience, high quality materials, and a very controlled process, the color, texture, and integrity of this product is guaranteed.
<b>PROPERTIES</b>	AIRDEC-WS LHR is a thermoplastic sheet laminate, which exhibits excellent part stiffness and impact resistance, and accurate reproduction of mold detail in conventional thermoforming operations at forming temperatures of 335°F to 365°F (168°C to 185°C).
<b>TYPICAL APPLICATIONS</b>	Window Shades
<b>FORMAT</b>	AIRDEC-WS LHR is available in sheets nominally 48 inches (1219 mm) wide, by 96 inches (2438 mm) long. Other sizes are available upon request.

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<sup>1</sup> FAR 25.853 Paragraph (d) and FAR 25 Appendix F

<sup>2</sup> Kynar<sup>®</sup> is the registered trademark of ATOFINA Chemicals Inc.

<sup>3</sup> The use of Ketone solvents is not recommended.

# AIRDEC-WS LHR

CHARACTERISTIC	TEST METHOD	UNIT	TYPICAL VALUES
THICKNESS	Micrometer before texturing	inch / mm	0.020 / 0.50 <sup>2</sup> 0.040 / 1.0 <sup>3</sup>
WEIGHT	ASTM D 461 (11)	oz/yd <sup>2</sup> / g/m <sup>2</sup>	25 / 848 <sup>2</sup> 48 / 1630 <sup>3</sup>
ADHESION OF LAYERS	DMS 2290 4.5.4 and 3.4.4	Pass / Fail	Pass <sup>2,3</sup>
COLORFASTNESS TO LIGHT	DMS 2292 4.5.2 and 3.4.2 FTMS No. 191 Method 5660	Pass / Fail	Pass (no change after 50 hours)
TENSILE STRENGTH	ASTM D-638	psi / MPa	6400 / 44.1 <sup>1</sup>
FLEXURAL STRENGTH	ASTM D-790	psi / MPa	10200 / 70.3 <sup>1</sup>
FLEXURAL MODULUS	ASTM D-790	psi / MPa	440000 / 3034 <sup>1</sup>
HARDNESS	ASTM D-785	Rockwell R	110 <sup>1</sup>
HEAT DEFLECTION TEMPERATURE	ASTM D-648	°F / °C at 264 psi	168 / 75.5 <sup>1</sup>
HEAT RELEASE	FAR 25.853 (d) / FAR 25 App. F Pt. IV Amdt. 83	Pass / Fail	Pass <sup>2,3</sup>
SMOKE DENSITY	FAR 25.853 (d) / FAR 25 App. F Pt. V Amdt. 83 ASTM E-662	Pass / Fail	Pass <sup>2,3</sup>
FLAMMABILITY (60 Second Vertical)	FAR 25.853 (d) / FAR 25 App. F Pt. IV Amdt. 83	Pass / Fail	Pass <sup>2,3</sup>
DRYING TIME	Experiment	Hours	1 hour at 250°F (121°C) per 0.040 inches (1 mm) of thickness
FORMING TEMPERATURE	Experiment	°F / °C	335°F - 365°F / 168°C - 185°C
MOLD SHRINKAGE	Experiment	in / in mm / mm	0.005 - 0.007 <sup>1</sup> 0.005 - 0.007 <sup>1</sup>

<sup>1</sup> Tests performed on 0.125-inch thick material

<sup>2</sup> Tests performed on 0.020-inch thick material

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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.