AIRCRAFT INTERIOR PORTFOLIO

LEXAN™ & LEXAN™ LITE SHEETS
OSU & FST COMPLIANT, LIGHTWEIGHT & HIGH-PERFORMANCE



LEXAN™ SHEET

POLYVANTIS



To support the aircraft industry with the growing sustainability demand and enhancing the passenger experience, POLYVANTIS delivers high performance, thermoplastic sheets, with standard densities as well as foamed and lightweight.

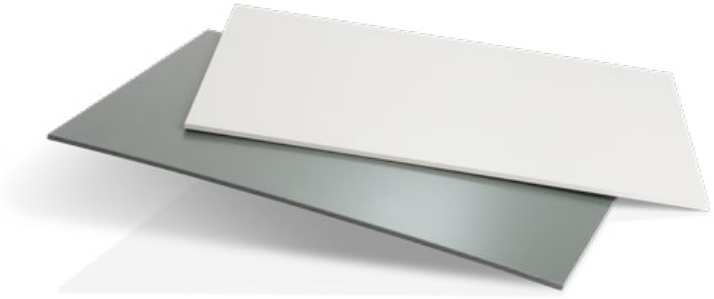
LEXAN™ Aircraft Sheet portfolio combines expertise, innovation and customer focus and is designed to help OEMs meeting safety and sustainability goals. By achieving weight reductions up to 50% vs standard thermoplastic solutions, **LEXAN™** and **LEXAN™ LITE** sheets combine OSU and FST (including toxicity) compliance with the possibility of significant fuel consumption reduction and consequent CO_2 emission mitigation, enhancing passengers experience while focusing on environment.

POLYVANTIS ongoing effort in developing innovative solutions for the Aircraft industry shows the company's commitment to help meet the stringent environmental demand, enable different thermoforming design options, improve quality and passenger flying experience.



LEXAN™ & LEXAN™ LITE SHEET SERIES

Based on LEXAN™ polycarbonate technology, **LEXAN™ F8000HR**, **LEXAN™ F8000HI** sheet and **LEXAN™ F6000** sheet deliver exceptional performance and combine OSU (CS 25.853) and FST (FAR 25.853) compliance, including toxicity, with reduced density in the lightweight **LEXAN™ LITE** foamed sheet version.



APPLICATIONS

- Seatings
- Tray tables
- Cladding
- Floor & roof panels
- Window frames
- Personal service units
- Dashboards

BENEFITS

FIRE NORM COMPLIANT

- OSU 55/55 (heat release, CS 25.853)
- FST compliant (fire, smoke and toxicity)
- FAR 25.853 (a) + App.F

LIGHTWEIGHT

In its LEXAN™ LITE version, F8000HR, F8000HI and F6000 can reach weight reduction up to 50% compared to other thermoplastic materials

ENHANCED MECHANICAL PROPERTIES

- High impact
- High stiffness
- High heat deflection temperature

ENABLES SUSTAINABILITY

LEXAN™ LITE sheets lower fuel consumption and CO_2 emissions

WIDE RANGE OF COLORS

- Standard color portfolio
- Custom colors available on request
- Fast lead time and flexible MOQ

EASY PROCESSING

Thermoformable, enable designers to create diverse, high- quality parts

PRODUCT OVERVIEW

GRADE NAME	GAUGE(S)	DENSITY	HEAT DEFLECTION TEMPERATURE (HDT)	KEY FEATURES
LEXAN™ F8LITE sheet	1.5 - 5 mm (0.059”-0.197”)	Down to 0.8 kg/dm³	140 °C	• OSU 55/55 compliant • FST compliant (incl. toxicity) • Foamed, lighter weight
LEXAN™ F8000HR sheet	1.2 – 5 mm (0.047”-0.197”)	1.35 kg/dm³	140 °C	• OSU 55/55 compliant • FST compliant (incl. toxicity) • High stiffness
LEXAN™ F8000HI sheet	1.2 – 5 mm (0.047”-0.197”)	1.35 kg/dm³	140 °C	• OSU 55/55 compliant • FST compliant (incl. toxicity) • High impact
LEXAN™ F6LITE sheet	1.5 - 5 mm (0.059”-0.197”)	Down to 0.5 kg/dm³	125 °C	• FST compliance (incl. toxicity) • Foamed, lighter weight
LEXAN™ F6000 sheet	1.5 - 6 mm (0.059”-0.236”)	1.21 kg/dm³	125 °C	• FST compliance (incl. toxicity) • High impact

POLYVANTIS is a world-leading, multi-material manufacturer of semi-finished plastic products. Our LEXAN™ Sheet portfolio complies with the most stringent standards required in the aircraft interior sector, including fire, smoke, and toxicity (FST) & OSU performance.

POLYVANTIS values collaboration with customers and combines a diversified, unique global portfolio with a well-established Application Development team supporting customers to create differentiated solutions.

GLOBAL REACH
LOCAL SUPPLY



POLYVANTIS

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