



# LIGHT+ COMPLIANT

LIGHTWEIGHT, ADVANCED THERMOPLASTIC MATERIAL SOLUTIONS  
WITH COMPLIANCE FOR AIRCRAFT INTERIORS



CHEMISTRY THAT MATTERS™

ADVANCED  
THERMOPLASTIC  
MATERIAL SOLUTIONS  
TO MEET THE CRITICAL  
CHALLENGES OF  
AIRCRAFT INTERIORS

To help global aerospace customers meet the critical challenges of weight-out, regulatory compliance, sustainability and improved flying experience, SABIC offers high-performance thermoplastic resin, sheet, foam and composite solutions.

These innovative products, together with the company's extended portfolio of advanced material technologies, can help global aerospace OEMs reduce weight by up to 50 percent which may conserve fuel and lower emissions; meet tough flame-smoke-toxicity (FST) regulations; reduce overall system costs; and enhance safety and comfort of the cabin environment.

SABIC's ongoing investment in advanced materials technologies for the aerospace sector demonstrates the company's commitment to helping aircraft OEM customers meet toughening regulations, greatly expand thermoforming design options, improve aesthetics and heighten the consumer flying experience.





#### AIRCRAFT SEATING & INTERIORS

Geven S.p.A. has chosen LEXAN™ XHR sheet for their new aircraft seating for Caribbean Airlines' "Armonia" interiors, designed by Giugiaro. High-performance, lightweight LEXAN XHR sheet offered compliance with the stringent FST, heat release and Airbus toxicity requirements and provided excellent processability and weight-out vs. traditional PVC/PMMA products.



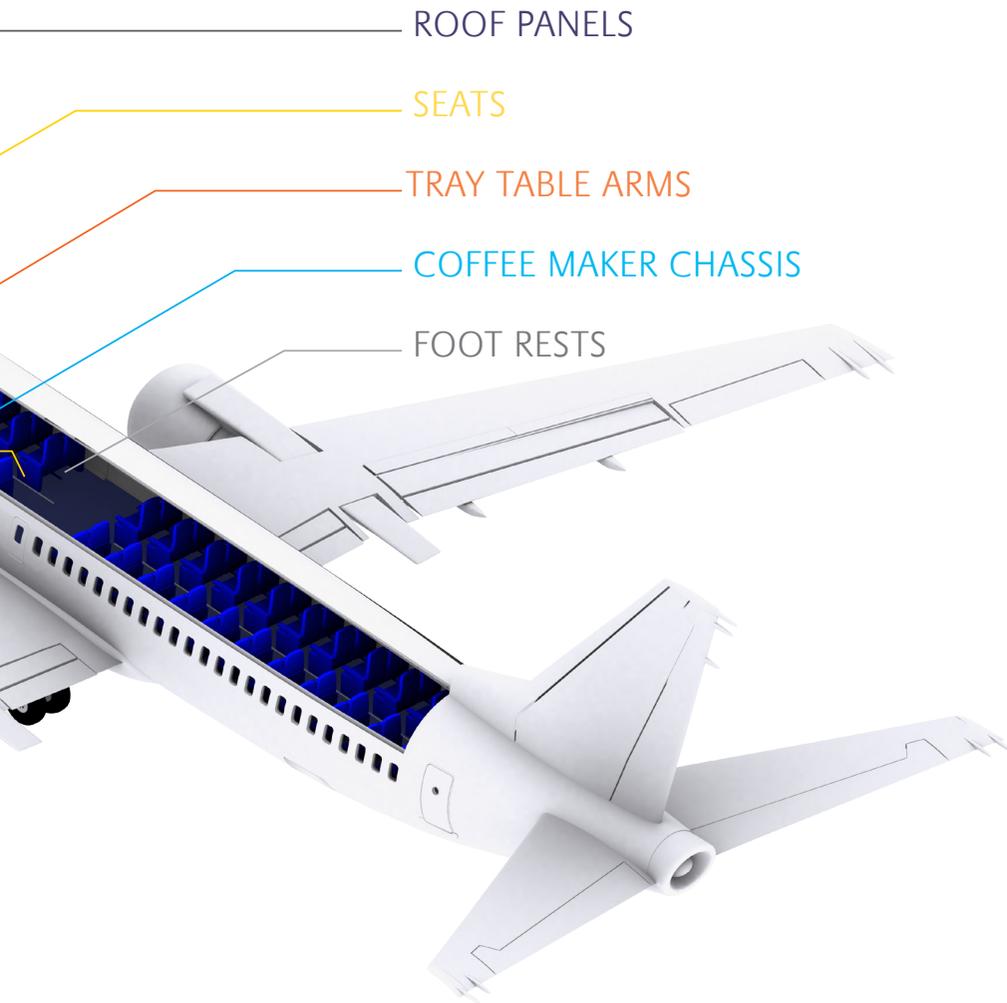
#### COCKPIT

LEXAN F6000 sheet was tapped by Pilatus Aircraft Ltd. a world-leading manufacturer of single-engine turboprop aircraft and aircraft training systems, to create its new state-of-the-art cockpit. The material gives the OEM superior processability vs thermosets along with colorability and dimensional stability and complies with industry requirements.



#### IN-FLIGHT MAGAZINE RACK

Light weight, transparent LEXAN F2000A sheet was selected by Patrick Lindon, a leading industrial designer for the interior and product design specializing in aircraft interiors and seating, to create its new in-flight brochure rack for Bucher Leichtbau AG. Among other key properties the sheet complies with FAR25853 flame and smoke requirements and ABD0031 toxicity requirements at 2mm and 3mm.



**AIRCRAFT SEATING**

SICMA Aero Seat, a business unit of ZODIAC AEROSPACE, selected LEXAN XHR sheet for their new aircraft seating due to the material's FST and OSU65/65 heat release compliance, excellent processing and beautiful color. LEXAN XHR sheet provides superior weight-out of up to 12 percent vs. traditional PVC/PMMA products for better fuel economy.



**WINDOW SHADES**

The next-generation LEXAN XHR 5000 sheet is designed for multi-layer aircraft window shade systems requiring advanced flame-smoke-toxicity properties, helping improve comfort in the cabin environment with a high quality appearance and enhanced room-darkening properties. This co-extruded product is engineered as a robust yet lightweight substrate to be laminated with decorative films.



**CABIN DIVIDER**

SABIC's ULTEM™ 1668 sheet is used to develop cabin dividers for Airbus aircraft by Adder. ULTEM 1668A sheet meets all current commercial aircraft interior requirements, including OSU heat-release 65/65, FAA smoke and flammability testing, and FRA vertical burn criteria and complies with toxicity standards BSS7239 and ABD0031.

OPAQUES				
ULTEM Sheet (PEI)		POLYCARBONATE FR - Transportation		
High Modulus meets OSU 65/65	Pure ULTEM resin foamed	FAR 25.853 & ABD 0031 Toxicity Compliant	Low heat, smoke release and Toxicity FAR 25.853, OSU 65/65 Bright White Color	White cap-layer over a black base OSU 65 / 65
ULTEM 1668A SHEET	ULTEM FOAM	LEXAN™ F6000 Sheet	LEXAN XHR 6000 Sheet	LEXAN XHR 5000 Sheet

MAIN CABIN / GENERAL	PARTITIONS	●	●	●	●	
	STORAGE/LUGGAGE COMPARTMENTS	●	●	●	●	
	FLOORING		●			
	VIDEO BEZELS	●		●	●	
	VIDEO SCREEN COVERS					
	GAP COVERS/DECORATIVE TRIM	●		●	●	
	PERSONAL SERVICE UNITS (PSU'S)	●		●	●	
	WEAR ITEMS/DOOR PIVOTS/RUB STRIPS					
	LIGHT DIFFUSERS					
	LIGHT HOUSINGS	●		●	●	
	SIGNAGE			●	●	
	INSULATION		●			
	EMERGENCY DOOR LIGHT FAIRING					
LAVATORY GALLEY	TOILETS	●	●	●	●	
	MIRRORS					
	COUNTER/SINK/BACKSPLASH	●			●	
	BEVERAGE CART	●	●		●	
COCKPIT	DASHBOARD ENCLOSURES	●	●	●	●	
	INSTRUMENT/GAUGE LENS					
	FIREWALL		●			
	VISORS					
SEATING	SEAT BACKS/FOOD TRAYS/ARM RESTS	●	●	●	●	
	END BAYS	●		●	●	
	TRIM PARTS	●		●	●	
	LIFE VEST HOLDERS	●		●	●	
	CENTER CONSOLE	●	●	●	●	
WINDOW	DUST/SCRATCH PANE					
	WINDOW SHADE					●
EXTERIOR	WINGTIP/LANDING LENS					
	RAYDOME/NOSE CONE		●			
CARGO	CARGO CONTAINERS					
	CARGOLINER					
	CARGO MIRRORS					
SPECIFICATIONS/OEM AIRFRAME	FAR 25.853 SECTION (a) 60 SECOND VERTICAL BURN	●	●	●	●	●
	FAR 25.853 SECTION (d) HEAT RELEASE OSU 65/65	●	●		●	●
	AIRBUS ABD0031 (TOXICITY)	●	●	●	●	●
	BOEING BSS 723 (TOXICITY)	●	●	●	●	●
	SMOKE DENSITY	●	●	●	●	●



## CONTACT US

### Middle East and Africa

SABIC Global Headquarters  
PO Box 5101  
Riyadh 11422  
Saudi Arabia  
T +966 (0) 1 225 8000  
F +966 (0) 1 225 9000  
E [info@sabic.com](mailto:info@sabic.com)

### Americas

2500 CityWest Boulevard  
Suite 100  
Houston, Texas 77042  
USA  
T +1 800 323 3783  
T +1 713 430 2301  
F +1 888 443 2033  
E [sales.spinside@sabic.com](mailto:sales.spinside@sabic.com)

### Europe

Plasticslaan 1  
4612 PX  
Bergen op Zoom  
The Netherlands  
T +31 (0)164 293678  
F +31 (0)164 293272  
E [sfs.info@sabic.com](mailto:sfs.info@sabic.com)

### Asia Pacific

2550 Xiupu Road  
Pudong  
201319 Shanghai  
China  
T +86 21 2037 8188  
F +86 21 2037 8288  
E [sfs.info@sabic.com](mailto:sfs.info@sabic.com)

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