



# FLYING SAFE WITH CREATIVE AND RESPONSIBLE SOLUTIONS

## CASE HISTORY



## APPLICATION

Airplane seat dividers for aircraft interiors.

## KEY CHALLENGES

Replace empty seats policy and strengthen passenger confidence in protection against risk of infection by next seat neighbors, these feasible solutions must meet high aircraft fire safety standards without adding excessive weight and interfering with the comfort or clear sight of passengers.

## SOLUTION

Clear transparent airplane seat dividers for attachment to the middle seat in rows of three seats, manufactured from SABIC's [LEXAN™ F2000A sheet](#):

- **Ease of conversion** – ideally suited to thermoforming complex thin-wall shapes on standard equipment at high deep-draw ratios and equal wall thickness distribution
- **Outstanding flame retardancy** – passes 60 s vertical burn test acc. to FAR 25.583(a) and meets demanding aerospace standards for smoke density and toxicity (ABD 0031, BSS 7239), both at wall thicknesses from 2 to 4 mm
- **High mechanical properties** – with excellent impact resistance, stiffness and strength-to-weight ratio
- **Long-lasting aesthetics** – crystal clear transparency, abrasion resistance, and chemical compatibility with common glass cleaner as well as industrial isopropyl alcohol (IPA) solutions for polycarbonate panels

---

## RESULTS

The seat dividers developed by Krüger Aviation with LEXAN™ sheet allow airlines to sit all three seats in rows of three and still help passengers feel safe from the sneezing and aerosols produced by seat neighbors. Flow simulation tests have shown that the dividers can significantly improve and complement the effective onboard infection regimen in aircraft. In addition, they also add to the privacy of passengers without restricting the clear sight in cabin.

As a cost-efficient solution, the seat dividers are designed for mounting without the need for modifications to the seats. One plane can be fully equipped within a few hours.



---

## FOR FURTHER INFORMATION

SABIC Functional Forms  
Achim Klaps  
Business Development  
M : +49 152 025 019 14  
E : [achim.klaps@sabic.com](mailto:achim.klaps@sabic.com)  
W : [www.sabic.com/ff](http://www.sabic.com/ff)

## PARTNER

Kruger Aviation  
Florian Ehinger  
Key Account Manager  
M : +49 40 6 70 52 189  
E : [f.ehinger@krueger-aviation.de](mailto:f.ehinger@krueger-aviation.de)  
W : [www.krueger-aviation.de](http://www.krueger-aviation.de)

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right. SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates, unless otherwise noted.

© 2021 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.