POLYVANTIS

FLAME RETARDANT & LIGHTWEIGHT RAILWAY INTERIORS

WITH LEXAN™ F6000 SHEET



The ultra-tough, flame-retardant (FR) LEXAN™ F6000 polycarbonate (PC) sheet offers excellent impact resistance, good stiffness and strength and ease of processing, making it suitable for a wide variety of applications in industries such as electrical/electronics and the railway interior industry.

Our flame-retardant sheet portfolio offers compliance to flame, smoke, toxicity, and heat release regulations, reduced overall system costs, and enhances the aesthetics, safety, and comfort of the application space.

PROPERTIES

- Potential weight-out of up to 23%vs. traditional PVC/PMMA
- FST Compliant
- FAR 25.853 flame & smoke capability
- Custom colored
- Easy processing versus thermoset materials
- Dimensional stability
- Texture retention after forming



POTENTIAL APPLICATIONS

- Seatings
- Wall / ceiling cladding
- Galley applications
- Electrical cabinets
- Medical device housings

LEXAN™ SHEET

PROCESSING

LEXAN™ F6000 sheet is ideally suited to thermoforming. It offers high, deep draw ratios, equal wall thickness distribution, and it can be formed into complex shapes using standard thermoforming equipment. Sandwich type heating systems give the best results. LEXAN F6000 sheet has a forming temperature range of 185 - 205°C. When forming, a draft angle of at least 3° should be allowed, and post mold shrinkage of 0.3 – 0.8% taken into account, depending on mold temperature.

ASSEMBLING

Parts made from LEXAN F6000 sheet can be assembled with plastics, metals, rubber and other materials using many types of adhesive bonding, welding and mechanical fastening techniques. Since some of these materials can cause environmental stress cracking, please consult your POLYVANTIS, Film & Sheet representative for advice on specific applications..

PRODUCT AVAILABILITY

Product code : LEXAN F6000

Textures : polished/suede (F6006)

See product availability guide for available gauges, sizes, and colors.



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