

# SAFETY + EFFICIENCY

## THE NEW ANTI-GRAFFITI LEXAN™ KH6200 SHEET FOR COST EFFICIENCY

As the global population and urbanization increases, the demand for modern mass transit systems also rises. Due to this, railway coach manufacturers are facing challenges not only to comply with new regulations and deliver passenger safety and comfort, but also to increase the efficiency and cost effectiveness of their operations.

SABIC has responded to these challenges by introducing a new flame retardant, anti-graffiti solution **LEXAN KH6200 SHEET**. SABIC's new material meets the requirements of current German DIN rail standard (DIN 5510-2:2009), offering customers a non-chlorinated and non-brominated material supporting their sustainability efforts. The new LEXAN KH6200 sheet solution complies with **French NF F 31-112 anti-graffiti norm** offering outstanding chemical resistance against graffiti and cleaning agents., providing cost-efficient choice.

LEXAN KH6200 sheet obtained an **S4/ SR2/ ST2 rating according to the German DIN 5510** norm at 3-5 mm and offers an attractive cost-benefit balance in less-demanding applications such as cladding. It delivers excellent impact performance at low temperatures (ductility down to -20°C) and excellent thermoforming performance at lower temperatures compared to standard polycarbonate materials

The LEXAN KH sheet series is a cost efficient choice to replace polyvinyl chloride (PVC), polyester, vinyl ester or phenolic fiber-reinforced plastic (FRP) materials used in many interior train applications including interior panels, window frames, ceilings and other large interior parts.

Compared to metal, thermosets and glass, the new LEXAN sheet material can generate significantly lower system costs through the consolidation of parts to streamline production and the avoidance of secondary operations such as painting and coating, machining and polishing.

### POTENTIAL BENEFITS

- > Graffiti resistance
- > Non-chlorinated and non-brominated fire safety
- > Durability and impact resistance
- > Lightweight
- > Easy manufacturing
- > Lower system cost
- > Design freedom

### POTENTIAL APPLICATIONS

- > Rail carriage interior walls
- > Rail interior panels
- > Rail window frames
- > Rail interior ceiling
- > Large rail interior parts



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