

Ixef[®]



SOLVAY

asking more from chemistry[®]



Ixef[®] PARA

for Aircraft Seating

**SPECIALTY
POLYMERS**

Aesthetics and Strength

Ixef® polyarylamide (PARA) provides a unique combination of high strength and a smooth, beautiful surface, making it ideal for arm rests and other seating components in aircraft cabin interiors.

Key features

- High strength and stiffness
- Class A surface
- ABD 0031 & BSS 7239 toxic gas emissions
- FAR 25.853a (60-second vertical burn)
- FAR 25.853d (smoke density), thickness dependent

Ixef® PARA compounds typically contain 50 % to 60 % glass fiber reinforcement, giving them remarkable strength and rigidity. What makes them unique is that even with high glass loadings, the smooth, resin-rich surface delivers a high-gloss, glass-free finish that's ideal for painting, metallization or producing a naturally reflective shell.

Good Dimensional Stability

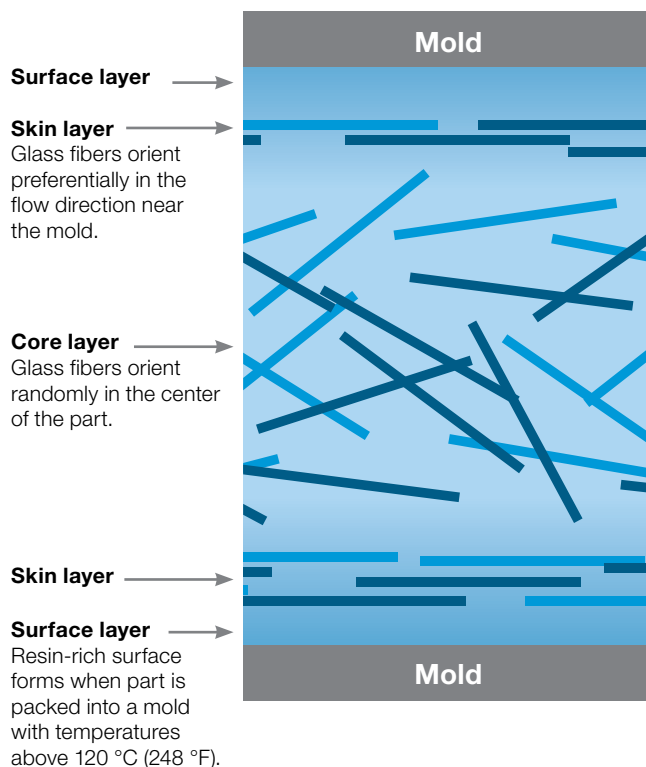
The coefficient of linear thermal expansion (CLTE) of Ixef® PARA resin is very low, similar to that of metals or metal alloys at ambient temperatures. Low mold shrinkage allows for high reproducibility and the ability to maintain tight tolerances.

Table 1: Ixef® PARA grades for aircraft interiors

Grade	Description
Ixef® 1521	50 % glass fiber, flame retardant
Ixef® 1524	50 % glass fiber, halogen-free flame retardant

Ease of Processing

Ixef® PARA resin offers good injectability and high flow, even for grades with high glass fiber content, making them ideal for complex or thin-walled parts. Immediately below the smooth, outer surface, glass fibers orient in the flow direction, while at the core, fiber orientation becomes random. The result is a strong polymer compound with a class A surface finish and unmatched dimensional stability.



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