

SUSTAINABILITY: CIRCULARITY**FINALIST: PRF Composite Materials**

RP570 FR REEPREG is a material innovation that combines recycled carbon fibre nonwoven mat with ultra-fast snap-cure epoxy prepreg technology to create a fire-retardant, eXpress cure prepreg suited for high-volume aerospace interior applications, with a complete cure cycle of just 5-6 minutes at 160°C and an out life of 60 days at 20°C.

Through significant R&D investment, PRF have developed a special methodology of impregnation that gives RP570 FR REEPREG superior handling qualities, easily pressing from a flat sheet into a 3D shape. Using recycled carbon fibre in this product reduces landfill waste and significantly improves circularity. By developing this product to achieve an areal weight of 400gsm, RP570 FR REEPREG also allows constructors to rapidly build thickness, reduce ply count and lay-up time, and ultimately lower manufacturing costs.

This material uniquely combines recycled carbon fibre, ultra-fast cure, FST compliance, and excellent handling – offering a significant step forward in enabling true circularity in high-performance applications. Launched in November 2024, RP570 FR REEPREG is already in use in executive aircraft interiors and, as more constructors move to high volume manufacturing, RP570 FR REEPREG is set to have growing industry impact. It also offers the potential to replace metal components in aircraft interiors with lightweight, recyclable composites — helping contribute to lightweighting, improving fuel efficiency and reducing environmental impact globally. More broadly, RP570 FR REEPREG demonstrates that recycled composites can meet rigorous aerospace standards — potentially accelerating adoption of this material where suitable across adjacent industries.

RP570 FR REEPREG is a proven, scalable prepreg solution that not only diverts waste from landfill but advances circularity in advanced composites manufacturing.

Learn more at: www.prfcomposites.com

