

In Flight Rohacell

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In the aerospace and defense industry, Evonik's PMI foam core is used under the brand name Rohacell. Major aircraft manufacturers use PMI foam in its fuselage, wings and floors in various models ...

Outlook on the PMI Foams Global Market to 2026 - Key Drivers and Restraints

and rocket fairings, low-temperature storage tanks, etc. In the aerospace and defense industry, Evonik's PMI foam core is used under the brand name Rohacell. Major aircraft manufacturers use PMI foam ...

Liquid hydrogen is shown to be the ideal fuel for civil transport aircraft, as well as for many types of military aircraft. Hydrogen Aircraft Technology discusses the potential of hydrogen for subsonic, supersonic, and hypersonic applications. Designs with sample configurations of aircraft for all three speed categories are presented, in addition to performance comparisons to equivalent designs for aircraft using conventional kerosine-type fuel and configurations for aircraft using liquid methane fuel. Other topics discussed include conceptual designs of the principal elements of fuel containment systems required for cryogenic fuels, operational elements (e.g., pumps, valves, pressure regulators, heat exchangers, lines and fittings), modifications for turbine engines to maximize the benefit of hydrogen, safety aspects compared to kerosine and methane fueled designs, equipment and facility designs for servicing hydrogen-fueled aircraft, production methods for liquid hydrogen, and the environmental advantages for using liquid hydrogen. The book also presents a plan for conducting the necessary development of technology and introducing hydrogen fuel into the worldwide civil air transport industry. Hydrogen Aircraft Technology will provide fascinating reading for anyone interested in aircraft and hydrogen fuel designs.