Global Aerospace Plastics Market Size, Market Share, Application Analysis, Regional Outlook, Growth Trends, Competitive Scenario And Forecasts, 2012 To 2020

Description:
Industry Insights
Emerging trend for high performance and lightweight aircraft components is expected to drive global aerospace plastics demand. Aerospace plastics can be processed to exhibit required characteristics and specifications owing to its high strength and heat resistant properties. These plastics are extensively used in manufacturing of various aircraft components including airframes, rotor blades, wings, empennages, cockpits, decks and cabins. Global aerospace plastics market is expected to be valued at more than USD 13 billion by 2020, with the demand expected to reach over 110,000 tons in the same year.

Various industry applications of aerospace plastics include rotary, military, commercial and other aircraft options. These plastics require complex and expensive fabrication machines in order to provide energy efficient composite alternatives for varying industry application. This labor intensive refining process results in increased costs. Therefore, high operating and repair costs as well as high maintenance may act as a barrier to market growth. Associated carbon fiber toxicity issue is another challenge to be faced by the market. Emerging trends of nanocomposites and composites is expected to spur new opportunities for aerospace plastics market. Rising passenger traffic across various markets is expected to drive demand for new aircrafts which would further augment demand for aerospace plastics market.

Application Insights
Application segment includes cabin areas, flight deck & cockpit, empennage, wings & rotor blades and airframe & fuselage. Wings and rotor blades are used to provide necessary force for aerial propulsion whereas empennage or tail assembly provides stability. Fuselage and airframe construction require different material to evolve such as composite, metal or wood. Employing these materials enable retention at high pressure level while cutting costs and reducing weight. Cockpits and flight deck demand electrical malfunction and high flame resistance properties to become suitable for passenger accommodation at high altitude. Aerospace plastics provide these components with required stable pressure resistant properties, stiffness and high strength, owing to these properties aerospace plastics have witnessed increased application demand in several aircraft components.

End User Insights
End use segment can be categorized into general aviation, rotary aircrafts, military aircrafts and commercial and fighter aircrafts. Military aircrafts may observe high growth at an expected CAGR for over 13% by 2020. Commercial aircrafts is the dominant market segment owing to emergence of several service providers in the aviation industry. The global aerospace plastics demand in commercial and fighter aircrafts was over 35,000 tons in 2013. The segment is expected to exceed a CAGR of over 12% within the forecast period. This is attributed to increasing number of service providers and number of passengers opting air transport. Preference towards niche air transportation options has led to exploration of gliders and rotary aircrafts for special travel purpose.

Regional Insights
Europe dominated the aerospace plastics market in 2013 with market revenue of over USD 3 billion. Significant number of aerospace OEMs coupled with presence of large aircraft manufacturers is expected to drive the regional demand for plastics. In addition, supportive government policies and investments have led to increased R&D activities for new material development. Market in North America is been affected by increased air traffic in defense and commercial segments.

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