Polybenzimidazole Fiber Market Is Driving by Rise in Aerospace and Automotive Industries : TMR

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Albany, NY -- (SBWire) -- 03/28/2019 --Global Polybenzimidazole Fiber Market: Overview

Polybenzimidazole (PBI) fiber is a synthetic fiber, which possesses exceptional thermal and chemical stability, low melting point, and high stability at elevated temperatures. It is inflammable in air and has high moisture content. It is widely used in protective wears such as protective gloves, aeronautical suits, aircraft wall fabrics, protective gloves, and welders' apparel. PBI fiber is manufactured through the dry spinning process by utilizing dimethylacetamide as solvent and tetra-aminobiphenyl and diphenyl isophthalate as reactants.

The global polybenzimidazole fiber market can be segmented based on type and application. Based on type, the market can be bifurcated into PBI filament and PBI staple fiber. In terms of application, the polybenzimidazole fiber market can be classified into medical, aerospace and defense, chemical, automobiles, textiles and others. Demand for PBI is expected to rise in aerospace and automotive industries, led by its properties such as high chemical resistance, liquid oxygen index, and moisture absorbance properties. Demand for PBI fiber in high temperature applications, which require high strength, is rising. These high temperature applications include high heat insulator bushings, electrical connectors in aircraft engines, and valve seats. This is boosting the polybenzimidazole fiber market.


Global Polybenzimidazole Fiber Market: Drivers

Increase in demand for safety apparel, typically in aerospace and defense industry, is a major factor driving the polybenzimidazole fiber market. PBI fiber does not exhibit any melting point and retains strength even when exposed to high temperature of 560°C. Additionally, demand for PBI fiber is rising in the manufacture of protective apparel such as welders' apparel, protective gloves, astronaut space suits, and fire fighter suits due to its high thermal and chemical stability. This is expected to propel the demand for PBI fiber during the forecast period. Production cost of PBI fiber is higher than that of other synthetic fibers. This is anticipated to restrain the market during the forecast period. Increase in research activities and mergers & acquisitions may provide lucrative opportunities to manufacturers of polybenzimidazole fiber in the near future. For instance, Celanese Corporation collaborated with NASA to design PBI fiber based space suits. These PBI fiber based space suits exhibit properties such as lack of melting point, inflammability, high strength, and resistance to mildew, abrasion, and chemicals. polybenzimidazole fiber is also gaining momentum in various other applications such as membrane of fuel cells and plastic reinforcements.

Global Polybenzimidazole Fiber Market: Key Players

Key players operating in the global polybenzimidazole fiber market are Atkins & Pearce, Bally Ribbon Mills (BRM), TenCate Protective Fabrics, PBI Performance Products, and Celanese Corporation.

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