Polyvinyl Alcohol (PVA) Manufacturing Industry

Description:

Polyvinyl Alcohol (PVA) Manufacturing Industry. The Global Polyvinyl Alcohol (PVA) Market is expected to Reach USD 1.21 Billion by 2025

Polyvinyl alcohol, also known as PVOH, PVA, or PVAL, is a synthetic polymer that is soluble in water. It is effective in film forming, emulsifying, and has an adhesive quality. It has no odor and is not toxic, and is resistant to grease, oils, and solvents. It is ductile but strong, flexible, and functions as a high oxygen and aroma barrier.

Polyvinyl Alcohol (PVA) is produced by polymerization of vinyl acetate monomer followed by hydrolysis. PVA finds application in various end-use industries such as food packaging, paper, textile, construction, coatings, and pharmaceutical. Polyvinyl Alcohol exhibits resistance to moisture and therefore, is predominantly used in the food packaging. Due to high water solubility and biodegradability, PVA has increasingly been used in the packaging industry.

Uses:

Polyvinyl Alcohol use is growing in packaged food products due to the benefits associated with it such as film forming and retention of taste & texture of the product. It is also used in the nutritional supplement pills, tablets and capsules owing to its viscosity. Polyvinyl alcohol is used as an additive in mortar and cement in order to increase of their cohesion and fluidic properties, reducing the drying time for the concrete surface. This increases the coating adaptability and prevents concrete cloth from chapping.

Polyvinyl alcohol is widely used to strengthen textile yarn and papers, particularly to make the latter more resilient to oils and grease. It is also used in freshwater sports fishing. PVA is added into bags that are filled with oil-based or dry fishing bait and attached to the hook. As PVA is soluble in water, when the bag lands on the bed of the water, it breaks down, leaving the hook bait surrounded by pellets and ground bait. This attracts fish to the hook bait, although the PVA does cause the plastic to dissolve in water.

For more details download PDF file.

Keywords: #Manufacture_of_Polyvinyl_Alcohol, #Polyvinyl_Alcohol_(PVA), #Polyvinyl_Alcohol_Production, #Preparation_of_Polyvinyl_Alcohol_(PVA), Poly (Vinyl Alcohol) (PVA), #Production_of_Polyvinyl_Alcohol, Manufacturing of Polyvinyl Alcohol, #Polyvinyl_Alcohol_Manufacturing_Plant, Polyvinyl Alcohol, Also Known as PVOH, PVA, or PVAL, Properties and Applications of Polyvinyl Alcohol, Manufacturing Process and Application of Polyvinyl Alcohol, Polyvinyl Alcohol (PVA) Manufacturing Process, Polyvinyl Alcohol U

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