

Polyacrylamide



Overview

Polyacrylamide (abbreviated as PAM or pAAM) is a polymer with the formula $(-CH_2CHCONH_2-)_n$. It has a linear-chain structure. PAM is highly water-absorbent, forming a soft gel when hydrated. In 2008, an estimated 750,000,000 kg were produced, mainly for water treatment and the paper and mineral industries. Chemical formula $(C_3H_5NO)_n$ CAS Number 9003-05-8 Watch full video Physicochemical properties Polyacrylamide is a. It can be viewed as with amide substituents on alternating carbons. Unlike various, polyacrylamide is not a because the amide groups are not in the p. In the 1970s and 1980s, the proportionately largest use of these polymers was in water treatment. The next major application by weight is additives for processing and. About 30% of polyacrylamide is used in t. Considering the volume of polyacrylamide produced, these materials have been heavily scrutinized with regards to environmental and health impacts. Polyacrylamide is of low toxicity but its precursor a.

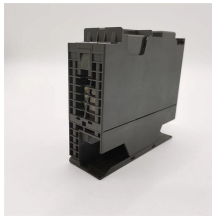
Polyacrylamide



Polyacrylamide is most commonly partially biodegraded by the action of amidases, producing ammonia and polyacrylates. Polyacrylates are hard to biodegrade, but some soil microbe cultures have been ...



Polyacrylamide is a synthetic polymer made up of long chains of repeating acrylamide units. It's a versatile material known for its water solubility, thickening properties, and in its cross-linked form, its ...



Polyacrylamide, an acrylic resin that has the unique property of being soluble in ...



What Is Polyacrylamide? Polyacrylamide is a polymer that is used in a wide variety of cosmetics and personal care products due to its ability to form a thin coating on the skin, hair, or ...



Polyacrylamide finds applications in pulp and paper production, agriculture, food processing, mining, and as a flocculant in wastewater treatment. Polyacrylamide undergoes thermal degradation at 175 to ...



Polyacrylamide (PAM): Applications, Mechanism & More! Need high-performance PAM for water treatment, food processing, or other industries? Explore the properties, classifications, and ...



In this guide, we break down everything you need to know: what polyacrylamide is, how it works, key benefits, safety considerations, major industry applications, insights into biodegradability, and pricing ...



Explore the versatile world of Polyacrylamide (PAM), its synthesis, properties, uses across various industries, and safety concerns.



A comprehensive guide to polyacrylamide: its composition, versatile applications, and safety profile.



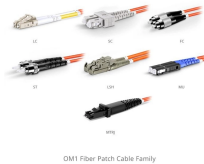
Polyacrylamide is a water-soluble polymer with acrylamide monomers bonded by end to end configuration. It has various applications in papermaking, ...



Polyacrylamide, also briefly referred as PAM, is commonly a polymer with acrylamide monomers bonded connected by end to end configuration; it is a hard glassy solid at room temperature.



Polyacrylamide, an acrylic resin that has the unique property of being soluble in water. It is employed in the treatment of industrial and municipal wastewater. Polyacrylamides are produced by the ...



Polyacrylamide is a polymer that forms a coating on the skin, hair, or nails and helps to thicken or gel products. Learn about its functions, pros and ...

Contact Us

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