

Technical Data Sheet

QINGQUAN-POLYVINYL ALCOHOL 2488

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| Description: | The polyvinyl alcohol products sold by our company have good spinning, film-forming, and bonding properties. It has a wide range of applications in fields such as chemical engineering, textiles, plastics, papermaking, leather making, bonding, and construction. It has superior environmental protection characteristics of easy degradation and no pollution, and has broad industrial development space. |
| Applications: | Polyvinyl alcohol 2488 can be applied in fields such as textile pulp, paper processing, adhesives, building mortar additives, emulsifiers, and building adhesives. |
| Benefits: | <ul style="list-style-type: none">·High oil resistance·Improve the stability of materials·Water solution has good film-forming and bonding properties |
| Chemical properties: | <p>The structural formula of PVA is - [CH₂CH (OH)] n -, where n represents the average degree of polymerization The basic properties of PVA are determined by its average degree of polymerization and alcoholysis, but the presence of over 10 irregular structures in PVA molecules also has a significant impact on its performance.</p> <p>(1) Water solubility: PVA molecules are easily soluble in water due to their high content of hydroxyl groups. Its solubility increases with the increase of water temperature, only expanding in cold water (low alcohol solubility products can slowly dissolve in room temperature water), and completely dissolving in hot water. Its aqueous solution has good film-forming and bonding properties.</p> <p>(2) Thermal stability: This series of products softens when heated, with no significant changes below 40 °C. They gradually color when the temperature is high, and decompose at extremely high temperatures, producing water, acetic acid, acetaldehyde, and butyraldehyde.</p> <p>(3) Chemical resistance: This series of products is almost unaffected by weak acids, bases, or organic solvents, and has high oil resistance.</p> <p>(4) Storage stability: This series of products has good stability and is stored in a natural and dry state for a long time without mold, deterioration, or moisture absorption.</p> <p>(5) PVA is a polymer with secondary hydroxyl groups. The secondary hydroxyl group in the PVA molecular formula has high activity and can undergo typical chemical reactions similar to low molecular alcohols, such as esterification, etherification, acetalization, etc. It also reacts with many inorganic and organic compounds.</p> |

Product features:

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| Product name | 24-88 |
| Viscosity | 40-55 |
| Average degree of aggregation | 2400-2600 |
| Alcoholic degree | 86-90 |
| Molecular weight | 101000-110000 |
| Volatile | 7.0 |
| Sodium acetate | 2.8 |
| Ash content | 1.5 |
| pH | 5-7 |

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| Health & safety considerations | The safety data sheet can be obtained from Shijiazhuang Qingquan Cellulose Co., Ltd. |
| Handling & storage | Polyvinyl alcohol 2488 must undergo moisture-proof treatment before storage. When the product is stored for a long time at a temperature above 30 degrees Celsius, or is exposed to pressure, moisture, or sunlight during this period. The product should be properly sealed and stored after opening. It is recommended to store it in the warehouse and place it in a cool and dry place. |
| Product stewardship | Qingquan has a fundamental concern for all who make, distribute and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. |

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