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Issues Caused by Increasing the Production Line Speed of Nitrile Gloves and Solutions

The operating speed of the production line is a critical factor in nitrile glove manufacturing. While increasing speed can improve production efficiency, it also introduces potential issues. Below is a detailed analysis of these problems and their solutions.

Issues Caused by Increased Production Speed

Uneven Glove Surface (Bumps & Irregularities)

When the production line speed is too high, the latex may not evenly coat the hand molds during dipping, resulting in an uneven glove surface.

Shrinkage Marks on Cross-Sections

Increasing the production speed shortens the separation time between the inner and outer layers of the glove, leading to shrinkage on cross-sections.

Reduced Elasticity

At higher speeds, the molecular entanglement time inside the nitrile gloves decreases, causing a decline in elasticity.

Solutions

Inspect Production Equipment

Before increasing speed, conduct a thorough inspection of all equipment to ensure proper functioning. Replace any worn-out or aging components promptly.

Adjust Latex Parameters

After speed adjustments, optimize the dipping time to ensure even latex coverage, resulting in a smooth and uniform glove surface.

Optimize Production Processes

Properly refining the production process is key to resolving issues like surface irregularities, cross-section shrinkage, and elasticity loss.

Strengthen Quality Control

After increasing production speed, implement stricter quality checks. Conduct regular sampling and self-inspections to detect and address defects early.

Fengwang ' s Conclusion

During production, closely monitor each stage to ensure smooth operations. Excessive line speed can lead to various glove quality issues. For any production-related concerns, feel free to contact us anytime.