



Quality Control Protocol for Knitted PVA Mesh

Manufacturer: PVA Hydrospol, s.r.o.

Date: September 1, 2024

Purpose of the Document

This document serves as a quality control protocol for the delivery of knitted PVA mesh produced by PVA Hydrospol, s.r.o. Its goal is to provide the customer with precise information regarding the measurement and verification of product quality, including compliance with established parameters and tolerances.

Measurement Procedure

1. Measurement of Length and Diameter:

- The mesh is measured in a stretched state, applying a force of 20 Nm. This ensures sufficient tension for accurate measurement.
- Both ends of the knitted mesh are secured with clamps to prevent slippage and ensure material stability during the measurement.
- The diameter and length are measured in the stretched state and recorded in the quality control table.

2. Measurement Tolerances:

- **Length Tolerance:** $\pm 10\%$ of the measured value. Any deviations within this range are considered acceptable.
- **Diameter Tolerance:** $\pm 20\%$ of the measured value, ensuring system compatibility.

3. Measurement of Dissolution Time:

- The dissolution time is measured under standard conditions at a water temperature of 20 °C. This parameter is recorded in the quality control table and has a tolerance of $\pm 10\%$ of the measured value. The measurement is performed on a PVA mesh filled in a typical state as used by the consumer.

Quality Control Table

Measurement Number	Mesh Length (m). Length Tolerance $\pm 10\%$ (m)	Diameter (mm) Diameter Tolerance $\pm 20\%$ (mm)	Dissolution Time (min) Dissolution Tolerance $\pm 10\%$ (min)
1	25,1m/25mm, 7,09m/25mm Slow melt	27,7mm, 27,8mm	57"05" 1'09"85"
2	25,12 m/35mm, 7,09mm/35mm Slow melt	35,01mm, 34,69mm	1'21"09" 1'19"65"
3	7,10m/25mm Fast melt	25,41mm	29"62"
4	7,11m/35mm Fast melt	34,37mm 34,51mm	26"92" 30"15"
5	7,10m/50mm Slow melt	52,41mm	1'08"25"

Description of Measured Parameters



1. Diameter:

The diameter measured on the product determines system compatibility and the substitute mesh size. It also specifies the diameter of the plastic tube on which the PVA mesh is stretched. The diameter is measured at the widest point of the product in a stretched state, applying a force of 20 Nm. The measurement tolerance for diameter is set at $\pm 20\%$, meaning any measured diameter within this range is considered acceptable and compliant with regulatory requirements.

2. Length:

The length of the mesh is measured in meters (m) and is determined in a stretched state, applying a force of 20 Nm. This length corresponds to the actual size of the mesh when stretched, providing accurate information for usage purposes.

Consumer and Manufacturer Protection

This protocol is developed based on applicable laws and regulations concerning consumer protection, specifically Act No. 250/2007 Coll. on Consumer Protection and related standards. PVA Hydros spol, s.r.o. commits to complying with all relevant regulations governing accurate product labeling and information provision to consumers. This procedure ensures:

- **Transparency of Information:** Consumers receive accurate details about product properties, including dimensions and tolerances.
- **Manufacturer Protection:** Precise definition of tolerances and measurement procedures protects the manufacturer from unwarranted complaints regarding product dimensions.

Quality Assurance

PVA Hydros spol, s.r.o. guarantees that all products meet the specified tolerances and technical specifications outlined in this document. Regular quality checks and measurements are conducted in accordance with internal standards and the requirements of consumer protection under Act No. 250/2007 Coll. on Consumer Protection.

Complaint Policy

In case of non-compliance with specified parameters, the customer is entitled to file a complaint in accordance with the agreed terms. PVA Hydros spol, s.r.o. commits to resolving complaints promptly and in compliance with applicable legal regulations.

Final Provisions

This protocol takes effect on the date of its approval and is binding for all PVA Hydros spol, s.r.o. employees responsible for the production, measurement, and quality control of knitted mesh. Any changes or amendments to this protocol must be made in writing and approved by the company management.

The inclusion of diameter tolerances of $\pm 5\%$ and $\pm 10\%$ ensures manufacturing precision and establishes a clear standard for acceptable deviations, helping to ensure product quality and protect the rights of all stakeholders.

This document is binding for all deliveries to the customer and serves as the official quality control protocol for knitted mesh. Any deviations from the specified specifications must be agreed upon in writing by both parties before delivery.

Approval:

[Signature of Manufacturer's Representative]

PVA Hydros spol, s.r.o.

Date of Approval: September 1, 2024