

MATERIALS & TESTING

Materials and testing overview.

ZolinWorks builds flexible tanks and welded PVC products from a range of fabrics, selected per application. This sheet shows representative grades and example test results — not a single fixed material.

- The examples below are illustrative. We supply multiple PVC and TPU grades in different weights and constructions. A test report for the exact material in your order is provided once the specification is confirmed.

Material range

REPRESENTATIVE GRADES

| EXAMPLE GRADE                       | CONSTRUCTION                     | WEIGHT               | WHERE IT FITS                                          |
|-------------------------------------|----------------------------------|----------------------|--------------------------------------------------------|
| Standard PVC tarpaulin              | PVC · 500D×500D / 9×9 ·<br>matte | 460 g/m <sup>2</sup> | Lighter covers and components                          |
| Heavy reinforced PVC,<br>fire-rated | PVC · 1000D×1000D /<br>30×30     | 900 g/m <sup>2</sup> | Tanks and fire-rated (B1) requirements                 |
| TPU grades                          | TPU · by specification           | on<br>request        | Lower weight, cold flexibility, repeated<br>deployment |

These are common reference grades, not the full range. Material is matched to your application, liquid, market, and durability needs at quotation.

Example test results

SAMPLE-SPECIFIC

|                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <div>STRENGTH EXAMPLE · 460 G/M<sup>2</sup> 9×9 PVC</div> <div>Mechanical performance</div> <div><div>Tensile load (warp / weft)</div><div>469 / 316 N·2.5cm</div></div> <div><div>Elongation at break (warp / weft)</div><div>22 / 23 %</div></div> <div><div>Tear load (warp / weft)</div><div>98 / 81 N·5cm</div></div> <div><div>Peel load, 72 h (warp / weft)</div><div>25 / 25 N·3cm</div></div> | <div>FIRE EXAMPLE · 900 G/M<sup>2</sup> 1000×1000 PVC</div> <div>Fire behaviour — DIN 4102-1:1998</div> <div><div>Method</div><div>Brandschacht (DIN 4102-1)</div></div> <div><div>Report no.</div><div>W2025-06305</div></div> <div><div>Test completed</div><div>May 2025</div></div> <div><div>Sample</div><div>1000D×1000D / 30×30, 900 g/m<sup>2</sup></div></div> <div><div>Result: meets Class B1 (low flammability)</div></div> |
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Sourced from established suppliers

Our PVC is supplied by reliable, high-grade fabric producers whose materials come with their own test reports.

Reports issued per selected material

Once your application and material grade are confirmed, we provide the strength and (where relevant) fire-test report for that specific fabric.

Example data is valid only for the tested samples shown and is not a final specification. Confirmed values depend on the selected fabric grade, construction, and order specification.

Request material test reports