Tool Bag, Polyvinyl Chloride (PVC) Film

1 Introduction

Note: Nothing in this standard supercedes applicable laws and regulations.

Note: In the event of conflict between the English and domestic language, the English language shall take precedence.

1.1 Purpose. The purpose of this standard is to provide specification to produce tool bags, possibly from residual material.

1.2 Applicability. Tool bags comprised of Polyvinyl Chloride (PVC) film, soft, weldable.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

None

2.2 GM Standards/Specifications.

GMW3059 GMW3220 GMW3390 GMW14126
GMW3182

3 Test Preparation and Evaluation

3.1 Resources.

3.1.1 Facilities. As found in a material test laboratory.

3.1.1.1 Calibration. The test facilities and equipment shall be in good working order and shall have a valid calibration label.

3.1.1.2 Alternatives. Alternative test facilities and equipment may also be used. However, all measuring variables as specified in this standard shall be determined correctly with respect to their physical definition.

3.1.2 Equipment. As found in the respective test procedures GMW3182, GMW3220, GMW3390, and GMW14126.

3.1.3 Test Vehicle/Test Piece. At least three (3) components are needed to check the characteristics of Section 4. The shape, dimensions and number of test pieces shall be taken from the respective test procedures GMW3182, GMW3220, GMW3390, and GMW14126.

3.1.4 Test Time.

Calendar time:	1 d
Test time:	8 h
Coordination time:	4 h

3.1.5 Test Required Information. Not applicable.

3.1.6 Personnel/Skills. Material Engineer/Technical Specialist in Polyvinyl Chloride (PVC) film.

3.2 Preparation. As found in the respective test procedures GMW3182, GMW3220, GMW3390, and GMW14126.

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3.3 Conditions.

3.3.1 Environmental Conditions. As found in the respective test procedures GMW3182, GMW3220, GMW3390, and GMW14126.

3.3.2 Test Conditions. Deviations from the requirements of this standard shall have been agreed upon. Such requirements shall be specified on component drawings, test certificates, reports, etc.

3.4 Instructions. See individual procedures in Section 4.

3.5 Data. See 3.7.

3.6 Safety.

This Engineering Standard may involve safety requirements for hazardous materials, the method of operations and equipment. This standard does not propose to address all the safety issues associated with its use. It is the responsibility of the user of this standard to ensure compliance with all appropriate safety and health practices. This would include any specific training that may be required. The safety and health standards include site specific rules and procedures, company rules and procedures, and Government Standards. Contact shall be made with the appropriate site Safety and Health personnel for further direction and guidance in these matters.

3.7 Documentation. Samples of components or material released to this standard shall be tested for conformity with the requirements of this standard and approved by the responsible GM Department prior to the start of delivery of production level components or materials.

Any change to the component or material, e.g., design, function, properties, manufacturing process and/or location of manufacture requires a new release of the product. It is the sole responsibility of the supplier to provide the customer, unsolicited, with documentation of any change or modification to the product/process, and to apply for a new release.

If not otherwise agreed to, the entire verification test shall be repeated and documented by the supplier prior to start of delivery of the modified or changed product. In some cases, a shorter test can be agreed to between the responsible GM department and the supplier.

3.7.1 Test Results. Provide all results of the test (Section 4) in a test report.

4 Requirements and Procedure

4.1 General.

4.1.1 Weight per Unit Area. According to GMW3182: 420 g/m^2 minimum.

4.1.2 Thickness. Minimum of 0.35 mm.

4.1.3 Cold Resistance. According to GMW14126: G100, H100.

4.1.3.1 Longitudinal Direction (Fabrication Direction). No fracturing.

4.1.3.2 Transverse Direction. No fracturing.

4.1.4 Temperature Resistance. Dimensional change in both directions: ± 2%.

4.1.4.1 Longitudinal Direction. Dimensional change: 2.5% maximum.

4.1.4.2 Transverse Direction. Dimensional change: ± 1%.

4.1.5 Softness. According to GMW3390.

4.1.5.1 Longitudinal Direction. Between 4.5 cm and 6.5 cm.

4.1.5.2 Transverse Direction. Between 5.0 cm and 6.0 cm.

4.1.6 Dielectric Weldability. Based on GMW3220. The strength of adhesion of the welded seams is tested on the tool bag after storage in heat: 4 N/seam width minimum.

5 Provisions for Shipping

Not applicable.

6 Notes

6.1 Glossary. Not applicable.

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