



SURFACE VEHICLE RECOMMENDED PRACTICE

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Peel Adhesion Test for Glass to Elastomeric Material for Automotive Glass Encapsulation

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Documents

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Foreword—This Document has not changed other than to put it into the new SAE Technical Standards Board Format.

1. Scope—This recommended practice defines a procedure for the construction and testing of a 180 deg peel specimen for the purpose of determining the bondability of glass to elastomeric material in automotive modular glass. This test method suggests that elastomeric material of less than 172 mpa modulus be used as the encapsulating material. The present practice of encapsulating automotive glass is described as molded-in-place elastomeric material onto the outer edge of the glass using thermoplastic or thermosetting material that quickly sets in the mold. The glass is removed from the mold with the cured elastomeric material bonded to the perimeter of the glass. This encapsulated glass module can now be bonded with a sealant adhesive into the body opening of a vehicle.

2. References

2.1 Applicable Publication—The following publication forms a part of the specification to the extent specified herein.

2.1.1 ASTM PUBLICATION—Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM D 1002

3. Test Substrates

3.1 Substrates—The glass specimens that will be used for testing, or any surface conditioner such as ceramic coating, should be of the type recommended by automotive engineers.

The thermoplastic or thermosetting material should have a modulus of less than 172 MPa and be of the type used in automotive glass encapsulation.

3.2 Dimensions—The recommended glass sample size should be at least 203 mm (8 in) long and at least 3.2 mm (0.125 in) thick and at least 25.4 mm (1 in) wide.

3.3 Glass Surface Preparation—Glass surface preparation, such as cleaning and priming application, should be in accordance with supplier's or automotive engineer's recommendation.