



SURFACE VEHICLE RECOMMENDED PRACTICE

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Lap Shear Test for Automotive-Type Adhesives for Fiber Reinforced Plastic (FRP) Bonding

RATIONALE

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Documents

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1. SCOPE

This SAE Recommended Practice describes a lap shear test method for use in measuring the bonding characteristics of automotive-type adhesives for joining fiber reinforced plastics (FRPs) to themselves and to metals.

2. REFERENCES

2.1 Applicable Document

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 ASTM Publication

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D 1002 Test Method for Strength Properties of Adhesives in Shear by Tension Loading (Metal-to-Metal)

ASTM D 2093 Practice for Preparation of Surfaces of Plastics Prior to Adhesive Bonding

ASTM D 4896 Guide for Use of Adhesive-Bonded Single Lap-Joint Specimens

ASTM D 5573 Practice for Classifying Failure Modes in Fiber-Reinforced-Plastic (FRP) Joints

3. TEST SUBSTRATE

3.1 Substrates

3.1.1 Fiber reinforced plastic as specified.

3.1.2 Metal composition and roughness as specified.