The Institute for Interconnecting and Packaging Electronic Circuits
2215 Sanders Road • Northbrook, IL 60062-6135

IPC-TM-650
TEST METHODS MANUAL

Number	
2.4.1.4	
Subject	
Adhesion, Overglaze (Hybrid Circuits)	
Date	Revision
12/87	
Originating Task Group	
N/A	

1.0 Scope This test method is to determine the adhesion quality of overglaze materials on the substrate surface of finished hybrid circuits.

2.0 Applicable Documents General Service Administration approved Commercial Item Description (CID) Standard AA113B, ''Tape Pressure Sensitive Adhesive'', FSC 7510-551-982.

3.0 Test Specimen

3.1 Any finished hybrid circuit having the overglaze under test applied to its surface. A minimum of three tests should be performed for each evaluation.

4.0 Apparatus

4.1 Tape 12.7 mm [1/2 inch] roll pressure sensitive (3m brand 300) transparent tape or equivalent per CID - AA113B Type 1; Class B) General Service Administration approved Commercial Item Description (CID) Standard AA113B, ''Tape Pressure Sensitive Adhesive'', FSC 7510-551-982.

5.0 Procedure

5.1 Test

5.1.1 Press a strip of pressure sensitive tape 12.7 mm [1/2 inch] wide and 50.8 mm [2 inch] long firmly across the surface of the board covering the marking on both the laminate and metal conductors.

5.1.2 Rapidly move the tape by manual force applied approximately perpendicular to the markings and board surface. Fresh tape must be used each time.

5.2 Evaluation

5.2.1 Visually examine the tape and specimen for evidence of any portion of the overglaze having come off the surface of the hybrid circuit as evidenced by particles of overglaze adhering to the tape.

6.0 *Note* Failure of the overglaze to properly adhere to the ceramic substrate constitutes failure of the test.