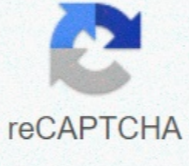




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## Astm d3330 pdf

Document Center Inc. is an authorized dealer of ASTM standards. The following bibliographic material is provided to assist you with your purchasing decision: Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape 1.1 These test methods cover the measurement of the peel adhesion of pressure-sensitive tapes. 1.1.1 Test Method A gives a measure of the adherence, when peeled at 180° angle, to a standard steel panel or to other surface of interest for a single-coated tape. 1.1.2 Test Method B gives a measure of the adherence to the backing of a single-coated tape. 1.1.3 Test Method C gives a measure of the adherence of double-coated tape to a standard steel panel or other surface of interest. 1.1.4 Test Method D gives a measure of the adherence of the release liner to the adhesive of either single- or double-coated tape. 1.1.5 Test Method E gives a measure of the adherence of an adhesive transfer tape to a standard steel panel or other surface of interest. 1.1.6 Test Method F gives a measure of the adherence, when peeled at 90° angle, to a standard steel panel or other surface of interest for a single-coated tape. 1.2 These test methods provide a means of assessing the uniformity of the adhesion of a given type of pressure-sensitive adhesive tape. The assessment may be within a roll of tape, between rolls, or between production lots. 1.3 Variations in either the tape backing or the adhesive, or both, affect the response. Therefore, these test methods cannot be used to pinpoint the specific cause(s) of non-uniformity. 1.4 These test methods may not be appropriate to test tapes having relatively stiff backings, stiff liners, or backings showing high stretch at low forces. These characteristics will result in a high variability for the test response which is not a true indication of the real nature of the adhesive bond. 1.5 Values stated in either SI or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents, therefore, each system must be used independently without combining values in any way. 1.6 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use. 1.7 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee. Significance and Use 5.1 These test methods are tools for quality assurance use. Given specific pressure-sensitive tape and a requirement in terms of the minimum or maximum peel value expected for this tape, the data from the test can be used in conjunction with acceptance criteria. 5.2 Test Method A, B, C, E, or F can show the relative bond strength of a given tape to one or more surfaces (material and texture) as compared to the standard stainless steel panel. Substitution of representative samples of materials in question for the standard steel panel would suffice to do this. 5.3 Test Methods A, B, C, E or F cannot be used to compare two pressure-sensitive tapes of the same type but of different manufacture for their ability to adhere to a surface. This is because the measured peel force is not normalized for a fixed area of stress. The area under stress varies with backing stiffness and adhesive rheology (firmness). Two different tapes seldom agree in these properties. 5.4 Test Method D can show the amount of force required to remove a liner that covers the adhesive side of a tape at a specified peel rate. The force will be different at other peel rates. 5.5 These test methods may not provide design information as there is usually no direct relationship between peel adhesion and any functional requirement. Keywords adhesion to backing; adhesion to liner; peel adhesion at 90° angle; peel adhesion at 180° angle; pressure sensitive tape; To find similar documents by ASTM Volume: 15.10 (Packaging; Flexible Barrier Packaging) To find similar documents by classification: 83.180 (Adhesives Including adhesive tapes Adhesive tapes for electrical insulation purposes, see 29.035.20) This document comes with our free Notification Service, good for the life of the document. This document is available in either Paper or PDF format. IPC-A-610 Acceptability of Electronic Assemblies (Hardcopy format) ASTM-D4169 Standard Practice for Performance Testing of Shipping Containers and Systems ASTM-A967 Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts ASTM-D3330/D3330M-04(2018) Revision Level 2004 R18 EDITION Status Current Modification Type Reapproval Publication Date Oct. 1, 2018 Document Type Test Method Page Count 6 pages Committee Number D10.14