



Designation: D3359 – 22

Standard Test Methods for Rating Adhesion by Tape Test¹

This standard is issued under the fixed designation D3359; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or approval.

1. Scope

1.1 These test methods cover procedures for assessing the adhesion of relatively ductile coating films to metallic substrates by applying and removing pressure-sensitive tape over cuts made in the film.

1.2 Test Method A is primarily intended for use in the field while Test Method B is more suitable for use in laboratory or shop environments. Also, Test Method B is not considered suitable for films thicker than 125 μm (5 mils) unless wider spaced cuts are employed and there is an explicit agreement between the purchaser and seller.

1.3 These test methods are used to evaluate whether the adhesion of a coating to a substrate is adequate for the user's application. They do not distinguish between higher levels of adhesion for which more sophisticated methods of measurement are required.

1.4 This test method is similar in content (but not technically equivalent) to ISO 2409.

1.5 In multicoat systems adhesion failure may occur between coats so that the adhesion of the coating system to the substrate is not determined.

1.6 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.7 *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.*

1.8 *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.*

¹ These test methods are under the jurisdiction of ASTM Committee D08 on Paint and Related Coatings, Materials, and Applications and are the direct responsibility of Subcommittee D08.33 on Physical Properties of Applied Paint Films.

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2. Referenced Documents

2.1 ASTM Standards:²

D609 Practice for Preparation of Cold-Rolled Steel Panels for Testing Paint, Varnish, Conversion Coatings, and Related Coating Products

D823 Practices for Producing Films of Uniform Thickness of Paint, Coatings and Related Products on Test Panels

D1000 Test Methods for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications

D1730 Practices for Preparation of Aluminum and Aluminum-Alloy Surfaces for Painting

D2092 Guide for Preparation of Zinc-Coated (Galvanized) Steel Surfaces for Painting (Withdrawn 2008)³

D2370 Test Method for Tensile Properties of Organic Coatings

D3330/D3330M Test Method for Peel Adhesion of Pressure-Sensitive Tape

D3924 Specification for Standard Environment for Conditioning and Testing Paint, Varnish, Lacquer, and Related Materials

D4060 Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser

2.2 Other Standards:

ISO 2409 Paint and Varnishes — Cross-cut test⁴

PSTC 101 International Standard for Peel Adhesion of Pressure Sensitive Tape⁵

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *adhesion*, α —the molecular attraction and mechanical bonds between a coating and its substrate.

3.1.2 *back*, ϵ —as it pertains to tape, a unique production run during manufacturing.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

⁵ Available from the Pressure Sensitive Tape Council (PSTC), 1123 Centre Point Circle, Suite 122, Naperville, IL 60563, <http://www.pstc.org>.

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ASTM D3359-09E2, 2009 **Handbook of Environmental Degradation of Materials** Myer Kutz, 2018-06-15 The Handbook of Environmental Degradation of Materials Third Edition explains how to measure analyze and control environmental degradation for a wide range of industrial materials including metals polymers ceramics concrete wood and textiles exposed to environmental factors such as weather seawater and fire This updated edition divides the material into four new sections Analysis and Testing Types of Degradation Protective Measures and Surface Engineering then concluding with Case Studies New chapters include topics on Hydrogen Permeation and Hydrogen Induced Cracking Weathering of Plastics the Environmental Degradation of Ceramics and Advanced Materials Antimicrobial Layers Coatings and the Corrosion of Pipes in Drinking Water Systems Expert contributors to this book provide a wealth of insider knowledge and engineering expertise that complements their explanations and advice Case Studies from areas such as pipelines tankers packaging and chemical processing equipment ensure that the reader understands the practical measures that can be put in place to save money lives and the environment Introduces the reader to the effects of environmental degradation on a wide range of materials including metals plastics concrete wood and textiles Describes the kind of degradation that effects each material and how best to protect it Includes case studies that show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects *UV Curable Coatings Generic Testing & Quality Assurance Protocol*, *Corrosion Control in the Oil and Gas Industry* Sankara Papavinasam, 2013-10-15 The effect of corrosion in the oil industry leads to the failure of parts This failure results in shutting down the plant to clean the facility The annual cost of corrosion to the oil and gas industry in the United States alone is estimated at 27 billion According to NACE International leading some to estimate the global annual cost to the oil and gas industry as exceeding 60 billion In addition corrosion commonly causes serious environmental problems such as spills and releases An essential resource for all those who are involved in the corrosion management of oil and gas infrastructure Corrosion Control in the Oil and Gas Industry provides engineers and designers with the tools and methods to design and implement comprehensive corrosion management programs for oil and gas infrastructures The book addresses all segments of the industry including production transmission storage refining and distribution Selects cost effective methods to control corrosion Quantitatively measures and estimates corrosion rates Treats oil and gas infrastructures as systems in order to avoid the impacts that changes to one segment if a corrosion management program may have on others Provides a gateway to more than 1 000 industry best practices and international standards *Roll-to-Roll Vacuum Deposition of Barrier Coatings* Charles A. Bishop, 2010-12-17 A practical working guide to producing high quality barrier coatings Roll to Roll Vacuum Deposition of Barrier Coatings is a practical guide providing the reader with basic information to help them understand what is necessary in order to produce a good barrier coated web or to improve the quality of an existing barrier

product Keeping mathematics to a minimum the terminology and science is introduced and includes descriptions about barrier testing methods and the vacuum deposition process The book looks at the whole process from the source materials through to the post deposition handling of the coated material This holistic view of the vacuum coating process provides a description of the common sources of defects and includes the possible methods of limiting these defects This enables readers to decide where their development efforts and money can best be used to improve the barrier performance of their own process or materials Roll to Roll Vacuum Deposition of Barrier Coatings Specifies the benefits and problems of producing vacuum deposited barrier coatings Explains why products designed by system operators might vary and how they can improve the quality and reproducibility of their products Describes the basic deposition process limitations that may arise and how they may be overcome Details why current barrier materials have limited performance and why it is so difficult and expensive to make improvements or to produce ultra barrier materials This practical reference is invaluable to all readers using the roll to roll vacuum coating technology including R product and process design operators technicians line managers involved in producing vacuum deposited barrier coatings It also serves the food packaging and medical packaging industries along with any industry using Organic Light Emitting Devices OLEDs such as electronics solar energy and photovoltaics PVs thin film battery as well as vacuum insulation panels *NIST Special Publication*, 2005

Techniques for Protecting Overhead Lines in Winter Conditions Masoud Farzaneh, William A. Chisholm, 2022-02-10 This book offers a comprehensive review of the various options for improving the performance of overhead power lines in winter conditions taking into account both mechanical and electrical aspects Experience within the CIGRE community reveals many strategies to protect overhead power lines from damage caused by heavy build up of ice and snow or electrical issues such as insulator icing flashovers The initial approach is to consider the predicted ice loads from the available databases This is supplemented with some fundamental aspects of icing physics that affect accretion rate as well as factors in ice shedding on traditional metal ceramic and novel treated surfaces These ice physics concepts structure the ways to categorize and evaluate methods to reduce or prevent icing on conductors and ground wires or to prevent flashover of insulators Many utilities in cold climate regions have developed and used methods and strategies to reduce ice loads using anti icing AI and or de icing DI methods In general AI methods are used before or early during ice build up while DI methods are activated during and sometimes after ice build up The book describes and discusses some historical operational or potential AI DI systems in the ice physics context This supports a comprehensive review of AI coatings including concepts relevant material properties application methods and finally test methods for characterizing the long term performance

Production Processes of Renewable Aviation Fuel Claudia Gutierrez-Antonio, Araceli Guadalupe Romero-Izquierdo, Fernando Israel Gomez Castro, Salvador Hernández, 2021-01-22 Production Processes of Renewable Aviation Fuel Present Technologies and Future Trends presents the available production processes for renewable aviation fuel including the application of intensification and energy

integration strategies Despite biofuels have gained a lot of interest in the last years renewable aviation fuel is one of the less studied In the last ten years there has been an incredible growth in the number of patents and articles related with its production processes Several transformation pathways have been proposed and new ones have been outlined The book contains the main information about the production processes of renewable aviation fuel considering international standards available technologies and recent scientific contributions It also outlines the motivation for the development of renewable aviation fuel and its main processing pathways from the different renewable raw materials In addition the application of intensification and energy integration strategies is presented along with the identified future trends in this area Includes the motivation for the development of renewable aviation fuel and applicable standards Describes the processing pathways from biomass to produce renewable aviation fuel Presents the application of intensification and energy integration strategies for the production of renewable aviation fuel The future trends in the production processes of renewable aviation fuel are discussed

Handbook of Sol-Gel Science and Technology Lisa Klein, Mario Aparicio, Andrei Jitianu, 2018-05-31 This completely updated and expanded second edition stands as a comprehensive knowledgebase on both the fundamentals and applications of this important materials processing method The diverse international team of contributing authors of this reference clarify in extensive detail properties and applications of sol gel science and technology as it pertains to the production of substances active and non active including optical electronic chemical sensor bio and structural materials Essential to a wide range of manufacturing industries the compilation divides into the three complementary sections Sol Gel Processing devoted to general aspects of processing and recently developed materials such as organic inorganic hybrids photonic crystals ferroelectric coatings and photocatalysts Characterization of Sol Gel Materials and Products presenting contributions that highlight the notion that useful materials are only produced when characterization is tied to processing such as determination of structure by NMR in situ characterization of the sol gel reaction process determination of microstructure of oxide gels characterization of porous structure of gels by the surface measurements and characterization of organic inorganic hybrid and Applications of Sol Gel Technology covering applications such as the sol gel method used in processing of bulk silica glasses bulk porous gels prepared by sol gel method application of sol gel method to fabrication of glass and ceramic fibers reflective and antireflective coating films application of sol gel method to formation of photocatalytic coating films and application of sol gel method to bioactive coating films The comprehensive scope and integrated treatment of topics make this reference volume ideal for R D scientists and engineers across a wide range of disciplines and professional interests

Chemically Bonded Phosphate Ceramics Arun S. Wagh, 2016-05-17 Chemically Bonded Phosphate Ceramics brings together the latest developments in chemically bonded phosphate ceramics CBPCs including several novel ceramics from US Federal Laboratories such as Argonne Oak Ridge and Brookhaven National Laboratories as well as Russian and Ukrainian nuclear institutes Coupled with further advances in their use as biomaterials these materials have found uses

in diverse fields in recent years Applications range from advanced structural materials to corrosion and fire protection coatings oil well cements stabilization and encapsulation of hazardous and radioactive waste nuclear radiation shielding materials and products designed for safe storage of nuclear materials Such developments call for a single source to cover their science and applications This book is a unique and comprehensive source to fulfil that need In the second edition the author covers the latest developments in nuclear waste containment and introduces new products and applications in areas such as biomedical implants cements and coatings used in oil well and other petrochemical applications and flame retardant anti corrosion coatings Explores the key applications of CBPCs including nuclear waste storage oil well cements anticorrosion coatings and biomedical implants Demystifies the chemistry processes and production methods of CBPCs Draws on 40 years of developments and applications in the field including the latest developments from USA Europe Ukraine Russia China and India

Contamination Mitigating Polymeric Coatings for Extreme Environments Christopher J. Wohl, Douglas H. Berry, 2020-05-15 This volume provides perspectives on the approaches mechanisms test methods durability considerations and environmental concerns for contamination mitigating coatings and polymers with emphasis on their use in more extreme aerospace and marine terrestrial environments Parts of the Volume are devoted to application of biomimetics to contamination mitigation polymeric coatings low ice adhesion surfaces insect residue adhesion resistance coatings and marine biofouling mitigation materials By juxtaposing ice insect and marine mitigation approaches researchers and users may more easily identify threads of similarity that will assist in future developments and potential applications in these areas The volume is of interest to chemists and material scientists in providing awareness of both the need for efficacy in mitigating contamination and for appropriate coating durability to physicists in providing better understanding of the interaction between the contaminant the coated surface and the surrounding environment and to engineers in describing the need for better scale up tests between laboratory and field environments

Encyclopedia of Polymer Degradation George Wypych, 2025-01-23 Encyclopedia of Polymer Degradation compiles research results for the most important and commonly used polymers identifying their unitary degradative chemical reactions including the fate of products resulting from primary degradation which can influence further degradation mechanisms and rates The book proposes potential mechanisms of reactions and chemical descriptions of the sequence for events for each degradation mode It takes a knowledge based approach with the aim of facilitating more effective prevention of waste and environmental pollution caused by material failures and also discusses the limitations of typical weathering studies challenges in lab based weathering studies and the importance of understanding various degradation mechanisms Outlines the limitations of typical weathering studies considering how they take place in natural outdoor environments where conditions aren't controlled and discussing how these limitations can be effectively dealt with Covers challenges in laboratory weathering studies and how these can be overcome Emphasizes the importance of understanding degradation mechanisms enabling the selection of the most resistant

materials for specific applications and the development of effective stabilization strategies to protect materials against degradation

Coatings for Corrosion Protection Charles Smith, 2005

Introduction to Cosmetic Formulation and Technology Gabriella Baki, Kenneth S. Alexander, 2015-03-26 Designed as an educational and training text this book provides a clear and easily understandable review of cosmetics and over the counter OTC drug cosmetic products The text features learning objectives key concepts and key terms at the beginning and review questions and glossary of terms at the end of each chapter section Overviews functions product design formulation and development and quality control of cosmetic ingredients Discusses physiological pharmaceutical and formulation knowledge of decorative care products Reviews basic terms and definitions used in the cosmetic industry and provides an overview of the regulatory environment in the US Includes learning objectives key concepts and key terms at the beginning and review questions and glossary of terms at the end of each chapter section Has PowerPoint slides as ancillaries downloadable from the book's Wiley.com page for adopting professors

Corrosion Science and Engineering Pietro Pedferri, 2018-09-21 This textbook discusses the latest advances in the corrosion of metals and related protection methods and explores all corrosion related aspects used in natural and industrial environments including monitoring and testing Throughout the textbook the science and engineering of corrosion are merged to help readers perform correct corrosion assessments in both the design phase and plant management phase and to define the optimal protection technique In addition the book addresses basic aspects of corrosion science including the electrochemical mechanism thermodynamic and kinetic aspects the use of Pourbaix and Evans diagrams and various forms of corrosion from uniform to localised to stress corrosion phenomena as well as the protection systems adopted to combat corrosion including inhibitors coatings and cathodic protection Such basic knowledge is fundamental to understanding the corrosion engineering approach applied to the durability of metals immersed in water buried in soil exposed to the atmosphere used in reinforced concrete in the human body and in petrochemical plants or at risk of high temperature corrosion A final chapter is dedicated to the use of statistics in corrosion All chapters include exercises and practical examples to help students understand predict evaluate and mitigate corrosion problems As such the book offers the ideal learning resource for all students of corrosion courses in chemical mechanical energy and materials engineering at the graduate and advanced undergraduate level as well as a valuable reference guide for engineers whose work involves real world applications

OLED Fundamentals Daniel J. Gaspar, Evgueni Polikarpov, 2015-05-15 A Comprehensive Source for Taking on the Next Stage of OLED R DOLED Fundamentals Materials Devices and Processing of Organic Light Emitting Diodes brings together key topics across the field of organic light emitting diodes OLEDs from fundamental chemistry and physics to practical materials science and engineering aspects to design and ma

High-Performance Organic Coatings A S Khanna, 2008-07-09 Paint coatings remain the most widely used way of protecting steel structures from corrosion This important book reviews the range of organic paint coatings and how their performance can be enhanced to provide effective

and lasting protection The book begins by reviewing key factors affecting the success of a coating including surface preparation methods of application selecting an appropriate paint and testing its effectiveness It also discusses why coatings fail including how they degrade and what can be done to prevent these problems Part two describes the main types of coating and how their performance can be enhanced including epoxies polyester glass flake fluoropolymer polysiloxane and waterborne coatings The final part of the book looks at applications of high performance organic coatings in such areas as reinforced concrete pipelines marine and automotive engineering With its distinguished editor and international team of contributors High performance organic coatings is a valuable reference for all those concerned with preventing corrosion in steel and other metal structures Reviews the factors affecting the success of a coating Describes the main types of coating and how their performance can be enhanced including epoxies polyester and waterborne coatings Examines applications in such areas as reinforced concrete pipelines and marine engineering

Coating Materials for Electronic Applications James J. Licari, 2003-06-11 This first book in the Materials and Processes for Electronics Applications series answers questions vital to the successful design and manufacturing of electronic components modules and systems such as How can one protect electronic assemblies from prolonged high humidity high temperatures salt spray or other terrestrial and space environments What coating types can be used to protect microelectronics in military space automotive or medical environments How can the chemistry of polymers be correlated to desirable physical and electrical properties How can a design engineer avoid subsequent potential failures due to corrosion metal migration electrical degradation outgassing What are the best processes that manufacturing can use to mask clean prepare the surface dispense the coating and cure the coating What quality assurance and in process tests can be used to assure reliability What government or industry specifications are available How can organic coatings be selected to meet OSHA EPA and other regulations Besides a discussion of the traditional roles of coatings for moisture and environmental protection of printed circuit assemblies this book covers dielectric coatings that provide electrical functions such as the low dielectric constant dielectrics used to fabricate multilayer interconnect substrates and high frequency high speed circuits Materials engineers and chemists will benefit greatly from a chapter on the chemistry and properties of the main types of polymer coatings including Epoxies Polyimides Silicones Polyurethanes Parylene Benzocyclobenzene and many others For manufacturing personnel there is an entire chapter of over a dozen processes for masking cleaning and surface preparation and a comprehensive review of over 20 processes for the application and curing of coatings including recent extrusion meniscus and curtain coating methods used in processing large panels The pros and cons of each method are given to aid the engineer in selecting the optimum method for his her application As a bonus from his own experience the author discusses some caveats that will help reduce costs and avoid failures Finally the author discusses regulations of OSHA EPA and other government agencies which have resulted in formulation changes to meet VOC and toxicity requirements Tables of numerous military commercial industry and NASA specifications are given to

help the engineer select the proper callout **Construction Calculations Manual** Sidney M Levy, 2011-09-23 The National Institute of Standards and Testing NIST Conversion tables and conversion formulas Calculations and formulas geometry trigonometry and physics in construction Site work Calculations relating to concrete and masonry Calculating the size weight of structural steel and miscellaneous metals Lumber calculations to select framing and trim materials Fasteners for wood and steel calculations for selection Calculations to determine the effectiveness and control of thermal and sound transmission Interior finishes Plumbing and HVAC calculations Electrical formulas and calculations **Failure Analysis of Paints and Coatings** Dwight G. Weldon, 2009-03-16 Entirely devoted to the failure analysis of coatings and paints an excellent reference to a select market Latest edition contains new material on surface preparation transfer of salt to steel from contaminated abrasive effect of peak density on coating performance on galvanizing silane modified coatings polyurea coatings polyaspartics and powder coatings and on dry spray Balances scientific background and practical advice giving both the theory and applications in a slim easily readable form Includes case studies of laboratory tests Written by an author with over 25 years of experience in the paint and coatings industry

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