

PHYSICAL TESTING FOR PVC RESIN PRODUCTS

“Ensuring Quality, Performance, and Compliance in PVC Resin Materials”

Schedule

Date	Venue	Fees (Face-to-Face)
03 - 05 November 2026	Doha, Qatar	USD 2,495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

PVC resins are widely used in pipes, cables, films, and other industrial applications. Ensuring their quality and performance requires rigorous physical testing to meet international standards and specifications.

This intensive 3-day course equips participants with in-depth knowledge of physical testing methods for PVC resins. Through hands-on exercises and case studies, participants will learn how to assess mechanical properties, thermal behavior, and material performance to ensure compliance and optimize product quality.

Objectives

By the end of this course, participants will be able to:

- Understand the key physical properties of PVC resin products
- Apply standardized testing methods for tensile strength, impact, hardness, and thermal properties
- Interpret test results accurately to assess material quality
- Identify defects and performance deviations in PVC resins
- Implement quality control and compliance procedures
- Enhance product development and troubleshooting capabilities

Why Attend

- Gain practical knowledge of PVC resin testing methods
- Ensure product compliance with international standards
- Improve quality control and material performance
- Strengthen skills in problem-solving and product optimization
- Enhance professional competence in polymer testing and analysis

Target Audience

This program is designed for:

- Quality control and assurance engineers
- Polymer and materials scientists
- Production and R&D professionals in PVC manufacturing
- Laboratory technicians and analysts
- Product development and testing specialists
- Technical managers in plastics and polymer industries

Individual Benefits

Key competencies that will be developed include:

- Understanding PVC resin physical and mechanical properties
- Proficiency in standardized testing techniques
- Ability to identify and analyze defects or deviations
- Improved data interpretation and reporting skills
- Enhanced problem-solving in production and testing environments
- Knowledge of compliance and quality assurance best practices

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved quality control and compliance of PVC resin products
- Reduced material defects and production errors
- Enhanced product performance and reliability
- Optimized testing workflows and resource utilization
- Stronger alignment with industry standards and regulations

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Overview of PVC resin properties, standards, and testing methods
- Case Studies - Examples of material failures and quality improvement initiatives
- Workshops - Hands-on exercises for tensile, impact, hardness, and thermal tests
- Peer Exchange - Group discussions on testing challenges and solutions
- Tools - Testing templates, data sheets, and analysis guides

Course Outline

Detailed 3-Day Course Outline

Training Hours: 07:30 AM – 03:30 PM Daily Format: 3–4 Learning Modules Coffee Breaks: 09:30 & 11:15 Lunch Buffet: 01:00 – 02:00

Day 1: Fundamentals of PVC Resin Properties

Module 1: Introduction to PVC Resins (07:30 – 09:30)

- Types and applications of PVC resins
- Chemical and physical characteristics

Module 2: Mechanical Properties Overview (09:45 – 11:15)

- Tensile strength, elongation, and impact resistance
- Importance in end-use applications

Module 3: Standard Testing Methods (11:30 – 01:00)

- ISO and ASTM methods for PVC resin testing

Module 4: Workshop & Practical Exercises (02:00 – 03:30)

- Hands-on measurement of basic mechanical properties

Day 2: Advanced Physical Testing Techniques

Module 1: Hardness and Flexibility Tests (07:30 – 09:30)

- Shore hardness and bending tests
- Analysis of results and interpretation

Module 2: Thermal Behavior and Stability (09:45 – 11:15)

- Heat deflection, Vicat softening, and thermal stability tests

Module 3: Quality Control Practices (11:30 – 01:00)

- Testing protocols and compliance verification

Module 4: Case Study Workshop (02:00 – 03:30)

- Troubleshooting quality issues in production samples

Day 3: Data Analysis, Reporting, and Application

Module 1: Data Interpretation and Reporting (07:30 – 09:30)

- Analyzing test results for quality assurance
- Documenting findings for compliance purposes

Module 2: Problem-Solving Techniques (09:45 – 11:15)

- Identifying root causes of material defects
- Applying corrective actions in production

Module 3: Practical Hands-on Exercises (11:30 – 01:00)

- Full workflow from testing to reporting

Module 4: Workshop & Final Review (02:00 – 03:30)

- Consolidation of learning and application in workplace scenarios

Certification

Participants will receive a Certificate of Completion in Physical Testing for PVC Resin Products, validating their expertise in material testing, analysis, and quality assurance for PVC resin products.

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