IS 17658 : 2021 Polyvinyl Chloride (PVC) Homopolymers — Specification

ICS 83.080.20 **PCD 12**

New Standard from Last Update.

1. Scope

2. References This standard prescribes requirements, methods of sampling and tests for Polyvinyl Chloride Suspension Resin (PVC-SR) and Polyvinyl Chloride Paste/Emulsion Resin (PVC-PR), also referred as Polyvinyl Chloride dispersion resin.

IS 17916 : 2022 Toluene Diisocyanate (TDI-80) - Specification
ICS 71.080.99 **PCD 9**

New Standard from Last Update.

1. SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for toluene diisocyanate (TDI-80), which is mixture of 80 percent 2,4-toluene diisocyanate (2,4-TDI) and 20 percent 2,6-toluene diisocyanate (2,6-TDI).

1.2 This standard cover Type I (for low acidity) of toluene diisocyanate (TDI-80).

2. REFERENCES

1070 : 1992 Reagent grade water - Specification (third revision)

5299 : 2001 Methods of sampling and tests for dye intermediates (first revision)

8768 : 2000 Method of measurement of colour in liquid chemical products platinum - cobalt scale (second revision)

IS 17927 : Part 1 : 2022 Plastics - Ethylene-Vinyl Acetate Eva) Moulding and Extrusion Materials Part 1 Designation System and Specification

ICS 83.080.20 **PCD 12**

New Standard from Last Update.

1. SCOPE

1.1 This Standard prescribes the requirements, methods of sampling and test for ethylenevinyl acetate thermoplastic material and also establishes a system of designation for ethylene-vinyl acetate thermoplastic material.

1.2 The ethylene-vinyl acetate (EVA) plastics are differentiated from each other by a classification system based on appropriate levels of the designatory property like vinyl acetate content, melt mass-flow rate and on information about the intended application and/or method of processing, important properties, additives, colorants, fillers and reinforcing materials.

1.3 This standard is applicable to all ethylene vinyl acetate copolymers having a mass fraction of 3 percent to 50 percent (approximately 25 percent molar) of vinyl acetate. It applies to materials ready for normal use in the form of powder, granulesor pellets and to materials unmodified or modified by colorants, additives, fillers, etc.

1.4 From this standard, it is not intended to imply that materials having the same designation give necessarily the same performance. This standard does not provide engineering data, performance data or data on processing conditions which might be required to specify a material for a particular application and/or method of processing. If such additional properties are required, they are determined in accordance with the test methods specified in IS 17927 (Part 2).

1.5 In order to specify a thermoplastic material for a particular application or to ensure reproducible processing, additional requirements can be given in data block 6.

2. REFERENCES

The Indian standards and other publications listed below contain provisions which, through reference in this text, constitute provision of this standard. At the time of publication, the edition indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below.

IS 2491 : 2013 Food hygiene - General principles - Code of practice (third revision)

IS 2828 : 2019/ISO 472 : 2013 Plastics - Vocabulary (second revision)

IS 9833 : 2018 List of colourants for use in plastics in contact with foodstuffs and pharmaceuticals (second revision)

IS 9845 : 1998 Determination of overall migration of constituents of plastics materials and articles intended to come in contact with foodstuffs - Method of analysis (second revision)

IS 13449 : 1992 Positive list of constituents of ethylene vinyl acetate (EVA) copolymers in contact with foodstuffs, pharmaceuticals and drinking water

IS 13601 : 1993 Ethylene vinyl acetate (EVA) copolymers for its safe use in contact with foodstuffs, pharmaceuticals and drinking water - Specification

IS 17927 (Part 2)/ISO 21301-2 : 2019 Plastics - Ethylene-vinyl acetate (EVA) moulding and extrusion materials: Part 2 Preparation of test specimens and determination of properties

ISO 1043-1 : 2011 Plastics - Symbols and abbreviated terms - Part 1: Basic polymers and their special characteristics

ISO 1043-2 : 2011 Plastics - Symbols and abbreviated terms - Part 2: Fillers and reinforcing materials

ISO 8985 : 2022 Plastics - Ethylene/vinyl acetate copolymer (EVAC) thermoplastics - Determination of vinyl acetate content

IS 17928 : Part 1 : 2022 Plastics - Poly (Methyl Methacrylate) (PMMA) Moulding and Extrusion Materials Part 1 Designation System and Specifications

ICS 83.080.20 **PCD 12**

New Standard from Last Update.

1. SCOPE

1.1 This Standard prescribes the designation system, requirements, methods of sampling and test for Polymethyl methacrylate (PMMA) thermoplastic material.

1.2 The types of PMMA plastic are differentiated by a classification system based on appropriate levels of the designatory property like vicat softening temperature, melt mass-flow rate, viscosity number (optional) and on information about the intended application and/or method of processing, important properties, additives and colourants.

1.3 This standard is applicable to all poly(methyl methacrylate) homopolymers and to copolymers of methyl methacrylate (MMA) containing at least a mass percentage of 80 percent of MMA and not more than a mass percentage of 20 percent of acrylic esters or other monomers.

1.4 This standard applies to materials ready for normal use in the form of beads, granules and pellets and to materials unmodified or modified by colourants, additives, etc. It does not apply to PMMA modified with elastomers.

1.5 This standard is not intended to imply that materials having the same designation give necessarily the same performance. This standard does not provide engineering data, performance data or data on processing conditions which might be required to specify a material for a particular application and/or method of processing. If such additional properties are required, they are, if suitable, determined using the test methods specified in IS 17928 (Part 2).

1.6 In order to specify a thermoplastic material for a particular application or to ensure reproducible processing, additional requirements can be given in data block 5.

IS 17982 : 2022 Methyl Methacrylate - Specification
ICS 71.080.70 **PCD 9**

New Standard from Last Update.

1. SCOPE

This standard prescribes the requirements, the methods of sampling and testing for Methyl Methacrylate (MMA).

2. REFERENCES

The following standards contain provisions, which through reference in this text constitute the provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most editions of the standards indicated below.

915 : 2012/ISO 1042 : 1998 Laboratory glassware - One-mark volumetric flasks (third revision)

1070 : 1992 Reagent grade water - Specification (third revision)

1260 (Part 1) : 1973 Pictorial marking for handling and labelling of goods: Part 1 Dangerous goods

1448 (Part 16) : 2014/ISO Methods of test for petroleum and its products: Part 16 Crude petroleum and liquid petroleum

3675 : 1998 products - Laboratory determination of density - Hydrometer method (fourth revision)

2362 : 1993 Determination of water by karl fischer method - Test method (second revision)

2631 : 2020 Iso propyl alcohol - Specification (second revision)

4905 : 2015 /ISO 24153: 2009 Random sampling and randomization procedures (first revision)

8768 : 2000 Method of measurement of colour in liquid chemical products platinum-cobalt scale (second revision)

IS 17988 : 2022 Chlorinated Polyvinyl Chloride (CPVC) Resin— Specification

ICS 83.080.20,
83.140.30

PCD 12

New Standard from Last Update

1. SCOPE

This standard prescribes requirements, methods of sampling and tests for Chlorinated Polyvinyl Chloride (CPVC) resin.

2. REFERENCES

The standards and the other publications listed below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below:

IS 2828 : 2019/ISO 472 : 2013 Plastics - Vocabulary (second revision)

IS 4669 : 1968 Methods of test for polyvinyl chloride resins

IS 10151 : 2019 Polyvinyl chloride (PVC) and its copolymers for its safe use in contact with foodstuffs, pharmaceuticals and drinking water - Specification (first revision)

IS 13360 (Part 3/Sec 2) : 1997/ISO 60 : 1997 Plastics - Methods of testing: Part 3 Physical and dimensional properties, Section 2 Determination of apparent density of material that can be poured from a specified funnel

IS 15778 : 2007 Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold-water distribution supplies - Specification

IS 17658 : 2021 Polyvinyl chloride homopolymer— Specification

ISO 1158 :1998 Plastics - Vinyl chloride homopolymers and copolymers - Determination of chlorine content

ISO 1265 : Plastics - Poly(vinyl chloride) resins 2007 - Determination of number of impurities and foreign particles

ISO 1269 : 2006 Plastics - Homopolymer and copolymer resins of vinyl chloride - Determination of volatile matter (including water)

ISO 1628- 2 : 2020 Plastics - Determination of the viscosity of polymers in dilute solution using capillary viscometers - Part 2: Poly(vinyl chloride) resins

ISO 4610 : 2001 Plastics - Vinyl chloride homopolymer and copolymer resins - Sieve analysis using air-jet sieve apparatus

ISO 6186 :1998 Plastics - Determination of pour ability

ISO 24538 : 2008 Plastics - Homopolymer and copolymer resins of vinyl chloride - Determination of residual vinyl chloride monomer by gaschromatographic analysis of dry powder

IS 17992 : 2022 Superabsorbent Polymer - Sodium Polyacrylate Resin For Hygiene Products - Specifiction

ICS 83.140.99 **PCD 12**

New Standard from Last Update.

1. SCOPE

1.1 This standard prescribes the requirements and method of test for superabsorbent polymer (SAP) made from sodium polyacrylate resin for absorbing blood and urine.

1.2 This standard applies to sodium polyacrylate resin, as raw material, and applies to SAP for the final products used for absorbing blood and urine.

IS 18103 : 2022 Plastics - Polyacrylamide Materials - Designation System and Specification

ICS 83.080.20 **PCD 12**

New Standard from Last Update.

1. SCOPE

This Standard establishes the designation system, prescribes the requirements, methods of sampling and test for Polyacrylamide material.

2. REFERENCES

2828 : 2019/ISO 472 : 2013 Plastics - Vocabulary

IS 18174 : 2023 Polyether Polyols - Specification

ICS 83.080.10 **PCD 09**

New Standard from Last Update.

1. SCOPE

1.1 This standard prescribes the requirements, methods of sampling and tests for polyether polyols used in polyurethane industry.

1.2 This standard does not cover bio-based or natural oil based polyols.

1.3 This standard does not cover formulated polyols, polyols with blowing agents and polyols with flame retardant and other additives.

2. REFERENCES

The standards listed below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreement based on standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below:

IS 2362 : 1993 Determination of water by karl fischer method - Test method (second revision)

IS 13360(Part 11/Sec 10) : 2022/ISO 2555 : 2018 Plastics - Methods of testing: Part 11 Special properties, Section 10 Resins in the liquid state or as emulsions or dispersions - Determination of apparent viscosity using a singular cylinder type rotational viscometer method

ISO 14900 : 2017 Plastics - Polyols for use in the production of polyurethane - Determination of hydroxyl number