

ISO Standards and Recommendations on Plastic Pipe Prepared by ISO/TC 138

ISO Standard or Recommendation	Title
10146:1997	Crosslinked polyethylene (PE-X) pipes – Effect of time and temperature on the expected strength
10147:1994	Pipes and fittings made of crosslinked polyethylene (PE-X) -- Estimation of the degree of crosslinking by determination of the gel content
10466:1997	Plastics piping systems -- Glass-reinforced thermosetting plastics (GRP) pipes -- Test method to prove the resistance to initial ring deflection
10508:1995	Thermoplastics pipes and fittings for hot and cold water systems
10838-1:2000	Mechanical fittings for polyethylene piping systems for the supply of gaseous fuels -- Part 1: Metal fittings for pipes of nominal outside diameter less than or equal to 63 mm
10838-2:2000	Mechanical fittings for polyethylene piping systems for the supply of gaseous fuels -- Part 2: Metal fittings for pipes of nominal outside diameter greater than 63 mm
10928:1997	Plastics piping systems -- Glass-reinforced thermosetting plastics (GRP) pipes and fittings -- Methods for regression analysis and their use
10931-1:1997	Plastics piping systems for industrial applications -- Poly(vinylidene fluoride) (PVDF) -- Part 1: General
10931-2:1997	Plastics piping systems for industrial applications -- Poly(vinylidene fluoride) (PVDF) -- Part 2: Pipes
10931-3:1996	Plastics piping systems for industrial applications -- Poly(vinylidene fluoride) (PVDF) -- Part 3: Fittings
10931-4:1997	Plastics piping systems for industrial applications -- Poly(vinylidene fluoride) (PVDF) -- Part 4: Valves
10931-5:1998	Plastics piping systems for industrial applications -- Poly(vinylidene fluoride) (PVDF) -- Part 5: Fitness for purpose of the system
10933:1997	Polyethylene (PE) valves for gas distribution systems
10952:1999	Plastics piping systems -- Glass-reinforced thermosetting plastics (GRP) pipes and fittings -- Determination of the resistance to chemical attack from the inside of a section in a deflected condition
11173:1994	Thermoplastics pipes -- Determination of resistance to external blows -- Staircase method
11413:1996	Plastics pipes and fittings -- Preparation of test piece assemblies between a polyethylene (PE) pipe and an electrofusion fitting
11414:1996	Plastics pipes and fittings -- Preparation of polyethylene (PE) pipe/pipe or pipe/fitting test piece assemblies by butt fusion
11420:1996	Method for the assessment of the degree of carbon black dispersion in polyolefin pipes, fittings and compounds
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1167:1996	Thermoplastics pipes for the conveyance of fluids -- Resistance to internal pressure -- Test method
11922-1:1997	Thermoplastics pipes for the conveyance of fluids -- Dimensions and tolerances -- Part 1: Metric series
11922-2:1997	Thermoplastics pipes for the conveyance of fluids -- Dimensions and tolerances -- Part 2: Inch-based series
12091:1995	Structured-wall thermoplastics pipes -- Oven test
12092:2000	: Fittings, valves and other piping system components made of unplasticized poly(vinyl chloride) (PVC-U), chlorinated poly(vinyl chloride) (PVC-C), acrylonitrile-butadiene-styrene (ABS) and acrylonitrile-styrene-acrylate (ASA) for pipes under pressure -- Resistance to internal pressure -- Test method
12162:1995	Thermoplastics materials for pipes and fittings for pressure applications -- Classification and designation -- Overall service (design) coefficient
12176-1:1998	Plastics pipes and fittings -- Equipment for fusion jointing polyethylene systems -- Part 1: Butt fusion
12176-2:2000	Plastics pipes and fittings -- Equipment for fusion jointing polyethylene systems -- Part 2: Electrofusion
12230:1996	Polybutene (PB) pipes -- Effect of time and temperature on the expected strength
13477:1997	Thermoplastics pipes for the conveyance of fluids -- Determination of resistance to rapid crack propagation (RCP) -- Small-scale steady-state test (S4 test)
13478:1997	Thermoplastics pipes for the conveyance of fluids -- Determination of resistance to rapid crack propagation (RCP) -- Full-scale test (FST)
13479:1997	Polyolefin pipes for the conveyance of fluids -- Determination of resistance to crack propagation -- Test method for slow crack growth on notched pipes (notch test)
13480:1997	Polyethylene pipes -- Resistance to slow crack growth -- Cone test method

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13760:1998	Plastics pipes for the conveyance of fluids under pressure -- Miners rule -- Calculation method for cumulative damage
13761:1996	Plastics pipes and fittings -- Pressure reduction factors for polyethylene pipeline systems for use at temperatures above 20 degrees C
13783:1997	Plastics piping systems -- Unplasticized poly(vinyl chloride) (PVC-U) end-load-bearing double-socket joints -- Test method for leaktightness and strength while subjected to bending and internal pressure
13844:2000	Plastics piping systems -- Elastomeric-sealing-ring-type socket joints of unplasticized poly(vinyl chloride) (PVC-U) for use with PVC-U pipes -- Test method for leaktightness under negative pressure
13845:2000	Plastics piping systems -- Elastomeric-sealing-ring-type socket joints for use with unplasticized poly(vinyl chloride) (PVC-U) pipes -- Test method for leaktightness under internal pressure and with angular deflection
13846:2000	Plastics piping systems -- End-load-bearing and non-end-load-bearing assemblies and joints for thermoplastics pressure piping -- Test method for long-term leaktightness under internal water pressure
13924:2000	Plastics pipes and fittings -- Bending-tensile cycle test for PE/metal transition fittings, PE tapping tees and PE branch saddles
13949:1997	Method for the assessment of the degree of pigment dispersion in polyolefin pipes, fittings and compounds
13954:1997	Plastics pipes and fittings -- Peel decohesion test for polyethylene (PE) electrofusion assemblies of nominal outside diameter greater than or equal to 90 mm
13955:1997	Plastics pipes and fittings -- Crushing decohesion test for polyethylene (PE) electrofusion assemblies
13957:1997	Plastics pipes and fittings -- Polyethylene (PE) tapping tees -- Test method for impact resistance
13966:1998	Thermoplastics pipes and fittings -- Nominal ring stiffnesses
13968:1997	Plastics piping and ducting systems -- Thermoplastics pipes -- Determination of ring flexibility
14236:2000	Plastics pipes and fittings -- Mechanical-joint compression fittings for use with polyethylene pressure pipes in water supply systems
15853:1999	Thermoplastics materials -- Preparation of tubular test pieces for the determination of the hydrostatic strength of materials used for injection moulding
161-1:1996	Thermoplastics pipes for the conveyance of fluids -- Nominal outside diameters and nominal pressures -- Part 1: Metric series
161-2:1996	Thermoplastic pipes for the conveyance of fluids -- Nominal outside diameters and nominal pressures -- Part 2: Inch-based series
2035:1974	Unplasticized polyvinyl chloride (PVC) moulded fittings for elastic sealing ring type joints for use under pressure -- Pressure-resistance test
2044:1974	Unplasticized polyvinyl chloride (PVC) injection-moulded solvent-welded socket fittings for use with pressure pipe -- Hydraulic internal pressure test
2045:1988	Single sockets for unplasticized poly(vinyl chloride) (PVC-U) and chlorinated poly (vinyl chloride) (PVC-C) pressure pipes with elastic sealing ring type joints -- Minimum depths of engagement
2048:1990	Double-socket fittings for unplasticized poly(vinyl chloride) (PVC-U) pressure pipes with elastic sealing ring type joints -- Minimum depths of engagement
2505-1:1994	Thermoplastics pipes -- Longitudinal reversion -- Part 1: Determination methods
2505-2/Cor1:1997	---
2505-2:1994	Thermoplastics pipes -- Longitudinal reversion -- Part 2: Determination parameters
2507-1:1995	Thermoplastics pipes and fittings -- Vicat softening temperature -- Part 1: General test method
2507-2:1995	Thermoplastics pipes and fittings -- Vicat softening temperature -- Part 2: Test conditions for unplasticized poly(vinyl chloride) (PVC-U) or chlorinated poly (vinyl chloride) (PVC-C) pipes and fittings and for high impact resistance poly (vinyl chloride) (PVC-HI) pipes
2507-3:1995	Thermoplastics pipes and fittings -- Vicat softening temperature -- Part 3: Test conditions for acrylonitrile/butadiene/styrene (ABS) and acrylonitrile/styrene/acrylic ester (ASA) pipes and fittings
2536:1974	Unplasticized polyvinyl chloride (PVC) pressure pipes and fittings, metric series -- Dimensions of flanges
264/Add1:1982	Diameters 200 mm and 225 mm
264:1976	Unplasticized polyvinyl chloride (PVC) fittings with plain sockets for pipes under pressure -- Laying lengths -- Metric series
265-1:1988	Pipes and fittings of plastics materials -- Fittings for domestic and industrial waste pipes -- Basic dimensions : Metric series -- Part 1: Unplasticized poly(vinyl chloride) (PVC-U)
3114:1977	Unplasticized polyvinyl chloride (PVC) pipes for potable water supply -- Extractability of lead and tin -- Test method

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3126:1974	Plastics pipes – Measurement of dimensions
3127:1994	Thermoplastics pipes – Determination of resistance to external blows – Round-the-clock method
3212:1975	Polypropylene pipes – Burst test requirements
3213:1996	Polypropylene (PP) pipes – Effect of time and temperature on expected strength
3458:1976	Assembled joints between fittings and polyethylene (PE) pressure pipes -- Test of leakproofness under internal pressure
3459:1976	Polyethylene (PE) pressure pipes -- Joints assembled with mechanical fittings -- Internal under-pressure test method and requirement
3474:1976	Unplasticized polyvinyl chloride (PVC) pipes -- Specification and measurement of opacity
3477:1981	Polypropylene (PP) pipes and fittings – Density – Determination and specification
3501:1976	Assembled joints between fittings and polyethylene (PE) pressure pipes -- Test of resistance to pull out
3503:1976	Assembled joints between fittings and polyethylene (PE) pressure pipes -- Test of leakproofness under internal pressure when subjected to bending
3514:1976	Chlorinated polyvinyl chloride (CPVC) pipes and fittings -- Specification and determination of density
3603:1977	Fittings for unplasticized polyvinyl chloride (PVC) pressure pipes with elastic sealing ring type joints -- Pressure test for leakproofness
3604:1976	Fittings for unplasticized polyvinyl chloride (PVC) pressure pipes with elastic sealing ring type joints -- Pressure test for leakproofness under conditions of external hydraulic pressure
3633:1991	Unplasticized poly(vinyl chloride) (PVC-U) pipes and fittings for soil and waste discharge (low and high temperature) systems inside buildings -- Specifications
3663:1976	Polyethylene (PE) pressure pipes and fittings, metric series – Dimensions of flanges
4059:1978	Polyethylene (PE) pipes – Pressure drop in mechanical pipe-jointing systems – Method of test and requirements
4065:1996	Thermoplastics pipes – Universal wall thickness table
4132:1979	Unplasticized polyvinyl chloride (PVC) and metal adaptor fittings for pipes under pressure -- Laying lengths and size of threads – Metric series
4422-1:1996	Pipes and fittings made of unplasticized poly(vinyl chloride) (PVC-U) for water supply -- Specifications -- Part 1: General
4422-2:1996	Pipes and fittings made of unplasticized poly(vinyl chloride) (PVC-U) for water supply -- Specifications -- Part 2: Pipes (with or without integral sockets)
4422-3:1996	Pipes and fittings made of unplasticized poly(vinyl chloride) (PVC-U) for water supply -- Specifications -- Part 3: Fittings and joints
4422-4:1997	Pipes and fittings made of unplasticized poly(vinyl chloride) (PVC-U) for water supply -- Specifications -- Part 4: Valves and ancillary equipment
4422-5:1997	Pipes and fittings made of unplasticized poly(vinyl chloride) (PVC-U) for water supply -- Specifications -- Part 5: Fitness for purpose of the system
4427:1996	Polyethylene (PE) pipes for water supply -- Specifications
4433-1:1997	Thermoplastics pipes – Resistance to liquid chemicals -- Classification -- Part 1: Immersion test method
4433-2:1997	Thermoplastics pipes – Resistance to liquid chemicals -- Classification -- Part 2: Polyolefin pipes
4433-3:1997	Thermoplastics pipes – Resistance to liquid chemicals -- Classification -- Part 3: Unplasticized poly(vinyl chloride) (PVC-U), high-impact poly (vinyl chloride) (PVC-HI) and chlorinated poly (vinyl chloride) (PVC-C) pipes
4433-4:1997	Thermoplastics pipes – Resistance to liquid chemicals -- Classification -- Part 4: Poly(vinylidene fluoride) (PVDF) pipes
4434:1977	Unplasticized polyvinyl chloride (PVC) adaptor fittings for pipes under pressure – Laying length and size of threads -- Metric series
4435:1991	Unplasticized poly(vinyl chloride) (PVC-U) pipes and fittings for buried drainage and sewerage systems -- Specifications
4437/Cor1:1999	--
4437:1997	Buried polyethylene (PE) pipes for the supply of gaseous fuels -- Metric series -- Specifications
4439:1979	Unplasticized polyvinyl chloride (PVC) pipes and fittings – Determination and specification of density
4440-1:1994	Thermoplastics pipes and fittings – Determination of melt mass-flow rate – Part 1: Test method
4440-2:1994	Thermoplastics pipes and fittings – Determination of melt mass-flow rate – Part 2: Test conditions

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4451:1980	Polyethylene (PE) pipes and fittings – Determination of reference density of uncoloured and black polyethylenes
580:1990	Injection-moulded unplasticized poly(vinyl chloride) (PVC-U) fittings – Oven test – Test method and basic specifications
6259-1:1997	Thermoplastics pipes – Determination of tensile properties -- Part 1: General test method
6259-2:1997	Thermoplastics pipes – Determination of tensile properties -- Part 2: Pipes made of unplasticized poly(vinyl chloride) (PVC-U), chlorinated poly (vinyl chloride) (PVC-C) and high-impact poly (vinyl chloride) (PVC-HI)
6259-3:1997	Thermoplastics pipes – Determination of tensile properties -- Part 3: Polyolefin pipes
6455:1983	Unplasticized polyvinyl chloride (PVC) fittings with elastic sealing ring type joints for pipes under pressure – Dimensions of laying lengths – Metric series
6964:1986	Polyolefin pipes and fittings – Determination of carbon black content by calcination and pyrolysis – Test method and basic specification
6992:1986	Unplasticized polyvinyl chloride (PVC-U) pipes for drinking water supply -- Extractability of cadmium and mercury occurring as impurities
6993:1990	Buried, high-impact poly(vinyl chloride) (PVC-HI) pipes for the supply of gaseous fuels – Specification
7245:1984	Pipes and fittings of acrylonitrile/butadiene/styrene (ABS) -- General specification for moulding and extrusion materials
7246:1984	Pipes and fittings of acrylonitrile/styrene/acrylester (ASA) – General specification for moulding and extrusion materials
7279:1984	Polypropylene (PP) fittings for pipes under pressure -- Sockets for fusion using heated tools – Metric series – Dimensions of sockets
727:1985	Fittings of unplasticized polyvinyl chloride (PVC-U), chlorinated polyvinyl chloride (PVC-C) or acrylonitrile/butadiene/styrene (ABS) with plain sockets for pipes under pressure – Dimensions of sockets -- Metric series
7349:1983	Thermoplastics valves -- Connection references
7370:1983	Glass fibre reinforced thermosetting plastics (GRP) pipes and fittings – Nominal diameters, specified diameters and standard lengths
7387-1:1983	Adhesives with solvents for assembly of PVC-U pipe elements -- Characterization – Part 1: Basic test methods
7508:1985	Unplasticized polyvinyl chloride (PVC-U) valves for pipes under pressure -- Basic dimensions - - Metric series
7509:2000	Plastics piping systems -- Glass-reinforced thermosetting plastics (GRP) pipes – Determination of time to failure under sustained internal pressure
7510:1997	Plastics piping systems -- Glass-reinforced plastics (GRP) components -- Determination of the amounts of constituents using the gravimetric method
7511:1999	Plastics piping systems -- Glass-reinforced thermosetting plastics (GRP) pipes and fittings -- Test methods to prove the leaktightness of the wall under short-term internal pressure
7671:1991	Polypropylene (PP) pipes and fittings (jointed by means of elastomeric sealing rings) for soil and waste discharge (low and high temperature) systems inside buildings – Specifications
7675:1991	Chlorinated poly(vinyl chloride) (PVC-C) pipes and fittings for soil and waste discharge (low and high temperature) systems inside buildings -- Specifications
7676:1990	Unplasticized poly(vinyl chloride) (PVC-U) pipes -- Dichloromethane test
7682:1991	Acrylonitrile/butadiene/styrene (ABS) pipes and fittings for soil and waste discharge (low and high temperature) systems inside buildings – Specifications
7684:1997	Plastics piping systems -- Glass-reinforced thermosetting plastics (GRP) pipes – Determination of the creep factor under dry conditions
7685:1998	Plastics piping systems -- Glass-reinforced thermosetting plastics (GRP) pipes – Determination of initial specific ring stiffness
7686:1992	Plastics pipes and fittings – Opacity -- Test method
8233:1988	Thermoplastics valves -- Torque – Test method
8242:1989	Polypropylene (PP) valves for pipes under pressure – Basic dimensions – Metric series
8283-1:1991	Plastics pipes and fittings – Dimensions of sockets and spigots for discharge systems inside buildings -- Part 1: Unplasticized poly(vinyl chloride) (PVC-U) and chlorinated poly (vinyl chloride) (PVC-C)
8283-2:1992	Plastics pipes and fittings – Dimensions of sockets and spigots for discharge systems inside buildings -- Part 2: Polyethylene (PE)
8283-3:1992	Plastics pipes and fittings – Dimensions of sockets and spigots for discharge systems inside buildings -- Part 3: Polypropylene (PP)
8283-4:1992	Plastics pipes and fittings – Dimensions of sockets and spigots for discharge systems inside buildings -- Part 4: Acrylonitrile/butadiene/styrene (ABS)
8361-1:1991	Thermoplastics pipes and fittings – Water absorption – Part 1: General test method

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8361-2:1991	Thermoplastics pipes and fittings – Water absorption – Part 2: Test conditions for unplasticized poly(vinyl chloride) (PVC-U) pipes and fittings
8361-3:1991	Thermoplastics pipes and fittings – Water absorption – Part 3: Test conditions for acrylonitrile/butadiene/styrene (ABS) pipes and fittings
8521:1998	Plastics piping systems – Glass-reinforced thermosetting plastics (GRP) pipes – Determination of the apparent initial circumferential tensile strength
8572:1991	Pipes and fittings made of glass-reinforced thermosetting plastics (GRP) – Definitions of terms relating to pressure, including relationships between them, and terms for installation and jointing
8584-1:1990	Thermoplastics pipes for industrial applications under pressure – Determination of the chemical resistance factor and of the basic stress – Part 1: Polyolefin pipes
8639:2000	Glass-reinforced thermosetting plastics (GRP) pipes and fittings – Test methods for leaktightness of flexible joints
8659:1989	Thermoplastics valves – Fatigue strength – Test method
8770:1991	High-density polyethylene (PE-HD) pipes and fittings for soil and waste discharge (low and high temperature) systems inside buildings – Specifications
8772:1991	High-density polyethylene (PE-HD) pipes and fittings for buried drainage and sewerage systems – Specifications
8773:1991	Polypropylene (PP) pipes and fittings for buried drainage and sewerage systems – Specifications
8779:1992	Polyethylene (PE) pipes for irrigation laterals – Specifications
8795:1998	Plastics piping systems for the conveyance of water intended for human consumption – Migration assessment – Determination of migration values for plastics pipes
8796:1989	Polyethylene (PE) 25 pipes for irrigation laterals – Susceptibility to environmental stress-cracking induced by insert-type fittings – Test method and specification
9356:1989	Polyolefin pipe assemblies with or without jointed fittings – Resistance to internal pressure – Test method
9393-1:1994	Thermoplastics valves – Pressure test methods and requirements – Part 1: General
9393-2/Cor1:1997	–
9393-2:1997	Thermoplastics valves – Pressure test methods and requirements – Part 2: Test conditions and basic requirements for PE, PP, PVC-U and PVDF valves
9623:1997	PE/metal and PP/metal adaptor fittings for pipes for fluids under pressure – Design lengths and size of threads – Metric series
9624:1997	Thermoplastics pipes for fluids under pressure – Mating dimensions of flange adapters and loose backing flanges
9625:1993	Mechanical joint fittings for use with polyethylene pressure pipes for irrigation purposes
9852:1995	Unplasticized poly(vinyl chloride) (PVC-U) pipes – Dichloromethane resistance at specified temperature (DCMT) – Test method
9853:1991	Injection-moulded unplasticized poly(vinyl chloride) (PVC-U) fittings for pressure pipe systems – Crushing test
9854-1:1994	Thermoplastics pipes for the transport of fluids – Determination of pendulum impact strength by the Charpy method – Part 1: General test method
9854-2:1994	Thermoplastics pipes for the transport of fluids – Determination of pendulum impact strength by the Charpy method – Part 2: Test conditions for pipes of various materials
9896:1996	Plastics traps for discharge pipework systems inside buildings
9967:1994	Thermoplastics pipes – Determination of creep ratio
9969:1994	Thermoplastics pipes – Determination of ring stiffness
10358:1993	Plastics pipes and fittings – Combined chemical-resistance classification table
10465-1:1993	Underground installation of flexible glass-reinforced thermosetting resin (GRP) pipes – Part 1: Installation procedures
10465-2:1999	Underground installation of flexible glass-reinforced thermosetting resin (GRP) pipes – Part 2: Comparison of static calculation methods
10465-3:1999	Underground installation of flexible glass-reinforced thermosetting resin (GRP) pipes – Part 3: Installation parameters and application limits
10501:1993	Thermoplastics pipes for the transport of liquids under pressure – Calculation of head losses
10837:1991	Determination of the thermal stability of polyethylene (PE) for use in gas pipes and fittings
11295:1992	Techniques for rehabilitation of pipeline systems by the use of plastics pipes and fittings
11647:1996	Fusion compatibility of polyethylene (PE) pipes and fittings
13950:1997	Plastics pipes and fittings – Automatic recognition systems for electrofusion
16913:1999	Plastics pipes and fittings – Definitions of types of test

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4191:1989	Unplasticized polyvinyl chloride (PVC-U) pipes for water supply -- Recommended practice for laying
7024:1985	Above-ground drainage -- Recommended practice and techniques for the installation of unplasticized polyvinyl chloride (PVC-U) sanitary pipework for above-ground systems inside buildings
7073:1988	Recommended techniques for the installation of unplasticized poly(vinyl chloride) (PVC-U) buried drains and sewers
7074:1986	Performance requirements for plastics pipes and fittings for use in underground drainage and sewage
8584-2:1993	Thermoplastics pipes for industrial applications under pressure -- Determination of the chemical resistance factor and of the basic stress -- Part 2: Pipes made of halogenated polymers
9080/Cor1:1995	---
9080:1992	Thermoplastics pipes for the transport of fluids -- Methods of extrapolation of hydrostatic stress rupture data to determine the long-term hydrostatic strength of thermoplastics pipe materials
10839:2000	Polyethylene pipes and fittings for the supply of gaseous fuels -- Code of practice for design, handling and installation
IEC 60130-8 Ed. 2.0 b	Connectors for frequencies below 3 MHz. Part 8: Concentric connectors for audio circuits in radio receivers