

BECETEL	Domain of accreditation	form scope
		21.10.2008
		Revision no. 7

Instruction n°	Determination	Test method	Material / Examples of some product standards
WINS001	Dimensions : Wall thickness, diameter, angle, length	EN ISO 3126 NBN T42-402 (1978)	Plastics : pipes / fittings / valves NBN T42-603 EN 13476 NBN EN 1329 DVGW W320 NBN EN 1401 DVGW W544 NBN EN 1451 DVGW GW335-A2 NBN EN 1452 DVGW GW335-B2 NBN EN 1453 DIN CERTCO ZP 14.3.1 NBN EN 1519 G / TW / AW / DA NBN EN 1555 NBN EN ISO 15875 NBN EN 1566 NBN EN ISO 15876 NBN EN 1852 NBN EN ISO 15877 NBN EN 12201 NBN T42-104 (1989) NBN EN 12666 NBN T42-105 (1992) NBN EN 13244 NBN T42-106 (1986) ISO 4427 NBN T42-110 (1980) ISO 4437 NBN T42-601 (1976) NBN EN ISO 15874
WINS002	Longitudinal reversion	NBN EN ISO 2505 NBN EN 743 (1994)	Plastics pipes NBN EN 1329 NBN EN ISO 15877 NBN EN 1401 DIN 8075 / 8078 / 8080 NBN EN 1451 DIN 16833 NBN EN 1452 DIN 16892 NBN EN 1453 DIN 16968 NBN EN 1519 DIN 16833 NBN EN 1555-2 DVGW W320 NBN EN 1566 DVGW GW335-A2 NBN EN 1852 DVGW W544 NBN EN 12666 DIN CERTCO ZP 14.3.1 NBN EN 13244-2 G / TW / AW / DA ISO 4427 NBN T42-104 (1989) ISO 4437 NBN T42-105 (1992) NBN EN ISO 15874 NBN T42-106 (1986) NBN EN ISO 15875 NBN T42-111 (1989) NBN EN ISO 15876

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WINS003	Resistance to internal pressure + Resistance to slow crack growth of a notched pipe (notch test) + Resistance to gas constituents	NBN EN ISO 1167-1/2/3/4, NBN EN 917, DIN 8075, NBN EN ISO 13846, NBN EN 921 (1995) ASTM D 1598 + NBN ISO EN 13479 (SCG) + ISO 4437 (Annex A) EN 1555-1	Plastics : pipes / fittings / valves NBN T 42-603 NBN EN 1329 NBN EN 1401 NBN EN 1451 NBN EN 1452 NBN EN 1519 NBN EN 1555 NBN EN 1566 NBN EN 1852 NBN EN 12201 NBN EN 13244 ISO 4427 ISO 4437 ISO 10838-1/2/3 NBN EN ISO 15874 NBN EN ISO 15875 NBN EN ISO 15876 NBN EN ISO 15877 DVGW W320 DVGW GW335-A2/B2 DVGW W544 DIN CERTCO ZP 14.3.1 G / TW / AW / DA NBN T 42-104 (1989) NBN T 42-105 (1992) NBN T 42-106 (1986) NBN T 42-110 (1980)
WINS004	Resistance to external blows by the round-the-clock method and by the staircase method	NBN EN 744, ISO 3127 NBN EN 1411	Plastics pipes NBN EN 1329 NBN EN 1401 NBN EN 1451 NBN EN 1452 NBN EN 1453 NBN EN 1566 NBN EN 1852 NBN EN ISO 15874 NBN EN ISO 15877 NBN T 42-110 (1980) DVGW W544
WINS005	Density (immersion method)	NBN EN ISO 1183-1 NBN T42-406 (1980)	Plastics NBN T 42-603 NBN EN 1329 NBN EN 1401 NBN EN 1452 NBN EN 1519 NBN EN 1566 NBN EN 13244 ISO 4437 NBN EN ISO 15877 DIN CERTCO ZP 14.3.1 G / TW / AW / DA NBN T 42-110 (1980) NBN T 42-601 (1976)

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WINS006	Vicat softening temperature (VST)	NBN EN ISO 306, NBN EN 727, ASTM D 1525	Plastics NBN T 42-603 NBN EN 1329 NBN EN 1401 NBN EN 1452 NBN EN 1453 NBN EN 1566 NBN EN ISO 15877 DVGW W544 NBN T 42-110 (1980) NBN T 42-601 (1976)
WINS011	Visual assessment of the effect of heating (oven test)	NBN EN ISO 580 NBN EN 763 (1994)	Plastics fittings NBN T 42-603 NBN EN 1329 NBN EN 1401 NBN EN 1451 NBN EN 1452 NBN EN 1455 NBN EN 1519 NBN EN 1565 NBN EN 1566 NBN EN 1852 NBN EN ISO 15877 EN 12666 NBN EN 13476 NBN T 42-601 (1976)
WINS013	Melt mass-flow rate (MFR)	NBN EN ISO 1133, ISO 4440, ASTM D 1238, DIN 53735 (1988)	Plastics pipes / fittings / valves NBN EN 1519 NBN EN 1451 NBN EN 1555 NBN EN 1852 NBN EN 12201 NBN EN 12666 NBN EN 13244 ISO 4427 ISO 4437 NBN EN ISO 15874 NBN EN ISO 15876 DVGW W320 DVGW GW335-A2+B2 DVGW W544 DIN CERTCO ZP 14.3.1 G / TW / AW / DA NBN T 42-104 (1989) NBN T 42-105 (1992) NBN T 42-106 (1986)
WINS016	Resistance to rapid crack propagation (S4 test)	EN ISO 13477	PE pipes NBN EN 1555 NBN EN 12201 NBN EN 13244 ISO 4437 DVGW GW335-A2/B2 DIN CERTCO ZP 14.3.1 G / TW / AW / DA

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WINS021	Tensile properties : yield strength, tensile strength, strain at break	NBN EN ISO 527-1/2/3/4/5, NBN EN ISO 6259-1/2/3 ASTM D 638 or comparable NBN T42-401 (1986), NBN EN 638 (1994), DIN 53455 (1981)	Plastics NBN EN 1329 NBN EN 1401 NBN EN 1519 NBN EN 1555 NBN EN 12201 NBN EN 12666 NBN EN 13244 ISO 4427 ISO 4437	NBN EN ISO 15877 ASTM D4894 §10.7 ASTM D4895 DVGW GW335-A2 DIN CERTCO ZP 14.3.1 G / TW / AW / DA NBN T 42-104 (1989) NBN T 42-105 (1992) NBN T 42-106 (1986)
WINS022	Tensile test on assemblies (pipe/pipe or pipe/fitting)	ISO 13951 ISO 10838-1/2/3-§8.3.1-§9.3.1 NBN EN 712	Polyolefin assemblies with electrofusion joints, butt fusion joints or mechanical fittings	
WINS023	Tear test for saddle assemblies	ISO/DIS 13956	PE electrofusion or heated tool saddles	NBN EN 1555 NBN EN 12201 DVGW GW335-B2
WINS025	Peel decohesion test for electrofusion assemblies	ISO 13954	PE electrofusion sockets	NBN EN 1555 NBN EN 12201 NBN EN 13244 DVGW GW335-B2
WINS026	Determination of the tensile strength of test pieces from a butt-fused joint	ISO 13953	PE pipes	NBN EN 1555 NBN EN 12201 NBN EN 13244 DVGW GW335-B2
WINS027	Determination of flexural properties (3 point load): flexural stress, displacement, module	NBN EN ISO 178 NBN EN ISO 14125	Thermoplastics, thermosetting or fibre reinforced materials	

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Instruction n°	Determination	Test method	Material / Examples of some product standards	
WINS034	Slow speed tensile test	BUtgb approval guideline for thermoplastics pressure piping systems, version of 18/10/2007	Assemblies in PEX, PP, PB, PVC-C or multilayer	
WINS035	Oxidation induction time (OIT)	ISO/TR 10837, NBN EN 728	NBN T 42-105 NBN T 42-106 NBN EN 1555 NBN EN 12201 NBN EN 13244	ISO 4427 ISO 4437 DVGW GW335-A2/B2 DIN CERTCO ZP 14.3.1 G / TW / AW / DA
WINS037	Resistance to rapid crack propagation (Full Scale test)	NBN EN ISO 13478	PE pipes	NBN EN 1555 NBN EN 12201 ISO 4437 DVGW GW335-A2/B2 DIN CERTCO ZP 14.3.1 G / TW / AW / DA
WINS038	Determination of the ring stiffness	EN ISO 9969	PE, PVC or PP pipes, Structured-wall pipes	
WINS040	Peel test on fused membranes	NBN EN 12814-4	Fused membranes of PE, PVC or reinforced plastics	
WINS041	Pressure testing – leak tightness	ISO 5208	PE-valves	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4
WINS042	Operating torque, stop resistance and actuation mechanism resistance	EN 28233	PE-valves	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4
WINS043	Resistance to bending between supports	EN 12100	PE-valves	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4

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WINS044	Leaktightness and ease of operation after tensile loading	ISO 10933	PE-valves	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4
WINS045	Resistance to thermal cycling	EN 1704, EN 12119	PE-valves	NBN EN 1555-4 NF 136
WINS046	Integrity after an external blow	EN 1705	PE-valves	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4
WINS047	Leaktightness under and after bending applied to the operating mechanism	EN 1680	PE-valves	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4
WINS049	Test methods for leaktightness of elastomeric sealing ring type joints	NBN EN 1277	Plastics pipes and structured-wall pipes NBN EN 1329 NBN EN 1519 NBN EN 1401 NBN EN 1565 NBN EN 1455 NBN EN 1852 NBN EN 1566 NBN EN 12666 NBN EN 1451 EN 13476	
WINS050	Tensile test on metallic wire	NBN EN 10002-1	Metallic wire	
WINS051	Determination of dimensions of perforations	prNBN T42-113	Structured-wall pipes	
WINS052	Determination of impact resistance	NBN EN 12061	Thermoplastics fittings NBN EN 1329 NBN EN 1401 NBN EN 1852 EN 13476	
WINS057	Resistance to thermal cycling (mechanical joints)	ISO 10838-1/2/3-§8.2, §9.2	PE pipes with mechanical joints	
WINS060	Leaktightness angular range	NF T 54-972	PE-valves	

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Instruction n°	Determination	Test method	Material / Examples of some product standards
WINS061	Homogeneity	DVGW W544 DVGW GW335-A2	Plastics pipes for drinking water and gas
WINS062	Pigment dispersion or carbon black dispersion	ISO 18553	PE pipes / fittings / valves NBN EN 1555 NBN EN 12201 NBN EN 13244 ISO 4427 ISO 4437 DVGW GW335-A2/B2 DIN CERTCO, ZP 14.3.1 G / TW / AW / DA
WINS063	Appearance	No test standard, see product standards	Plastics : pipes / fittings / valves NBN EN 1329 NBN EN 1401 NBN EN 1451 NBN EN 1452 NBN EN 1453 NBN EN 1519 NBN EN 1555 NBN EN 1565 NBN EN 1566 NBN EN 1852 ISO 4427 ISO 4437 DIN 8075 DIN 8078 DIN 8080 NBN EN 12666 NBN EN ISO 15874 NBN EN ISO 15875 NBN EN ISO 15876 NBN EN ISO 15877 DVGW GW335-A2 DVGW GW335-B2 DVGW W544 DIN CERTCO, ZP 14.3.1 G / TW / AW / DA DIN 16833 DIN 16892 DIN 16968
WINS066	Heat reversion	NBN EN 479	PVC profiles for windows and doors NBN EN 12608
WINS067	Resistance to impact by external blows	NBN EN 477	PVC profiles for windows and doors NBN EN 12608
WINS070	Appearance after exposure at 150°C	NBN EN 478	PVC profiles for windows and doors NBN EN 12608