



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory

**BORLAB BORU TEST BELGELENDİRME DANIŞMANLIK EĞİTİM VE LABORATUVAR HİZMETLERİ
ANONİM ŞİRKETİ**

Central Address: OSTİM OSB MAH. 1219 CAD. NO:7 YENİMAHALLE Ankara / Türkiye

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

Accreditation Number : AB-0735-T

Accreditation Date : 20.11.2013

Revision Date / Number : 22.08.2023 / 09

This certificate shall remain in force until **08.02.2026**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu
Secretary General



Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

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 <p>TÜRKAK</p> <p>Test TS EN ISO/IEC 17025 AB-0735-T</p>	BORLAB BORU TEST BELGELENDİRME DANIŞMANLIK EĞİTİM VE LABORATUVAR HİZMETLERİ ANONİM ŞİRKETİ	
	Accreditation Nr: AB-0735-T Revision Nr: 09 Date: 22.08.2023	
Testing Laboratory		
Address : OSTİM OSB MAH. 1219 CAD. NO:7 YENİMAHALLE Ankara / Türkiye	Phone : +90 312 394 3941 Fax : - Email : ekrem.demir@borlab.com.tr Website : www.borlab.com.tr	

Plastic and Rubber Products		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Density	TS EN ISO 1183-1 (Method A)
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Longitudinal Reversion	TS EN ISO 2505
Plastics, Thermoplastic Pipes and Fittings, Plastic Piping Systems	Determination of Resistance to External Blows - (Max D=1400 mm)	TS EN ISO 3127
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Carbon Black Content in Olefin Plastics	ASTM D1603
Plastic, Rubber, Rubber Materials and Related Products	Rubber, vulcanized or thermoplastic — Determination of hardness — Part 4: Indentation hardness by durometer method (Shore hardness)	TS ISO 48-4 (Shore A, Shore D)
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Test Method for the Resistance to Internal Pressure after Application of Squeeze-Off	TS EN 12106
Plastic, Rubber, Rubber Materials and Related Products	Rubber, vulcanized or thermoplastic — Determination of hardness — Part 7: Apparent hardness of rubbercovered rollers by Shore-type durometer method	TS ISO 48-7 (Shore A, Shore D)
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Methods for Visually Assessing the Effects of Heating	TS EN ISO 580
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Volatile Content	TS EN 12099
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Tensile Properties (Max=50kN)	TS EN ISO 527-1 TS EN ISO 527-2
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Carbon Black Content by Calcination and Pyrolysis	TS ISO 6964
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	The Assessment of the Degree of Pigment or Carbon Black Dispersion	TS ISO 18553
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of the Tensile Strength and Failure Mode of Test Pieces from a Butt-Fused Joint	TS ISO 13953
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Peel Decohesion Test for Polyethylene (PE) Electrofusion Assemblies of Nominal Outside Diameter Greater than or Equal to 90 mm	TS ISO 13954



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Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Crushing Decohesion Test for Polyethylene (PE) Electrofusion Assemblies	TS ISO 13955
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Decohesion Test of Polyethylene (PE) Saddle Fusion Joints- Evaluation of Ductility of Fusion Joint Interface by Tear Test	TS ISO 13956
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Ring Stiffness (Max d=1400 mm)	TS EN ISO 9969
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Ring Flexibility (Max d= 1400 mm)	TS EN ISO 13968
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Oven Test	TS ISO 12091
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Resistance to Rapid Crack Propagation (RCP)	TS EN ISO 13477 EN ISO 13477
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Resistance to Crack Propagation-Test Method for Slow Crack Growth on Notched Pipes (Notch Test)	TS EN ISO 13479 EN ISO 13479
Plastic, Rubber, Rubber Materials and Related Products	Determination of Tear Strength - Trouser, Angle And Crescent Test Pieces	TS ISO 34-1(Angle Type)
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Oxidation Induction Time (OIT)	TS EN ISO 11357-6 TS EN ISO 11357-1
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of the Melt Mass - Flow Rate (MFR)	TS EN ISO 1133-1 (Method A)
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Tensile Properties (Max=50 kN)	TS EN ISO 6259-1 TS EN ISO 6259-3
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of the Resistance to Internal Pressure (Max d= 800 mm)	TS EN ISO 1167-1 TS EN ISO 1167-2 EN ISO 1167-1 EN ISO 1167-2
Plastic, Rubber, Rubber Materials and Related Products	Determination of Indentation Hardness by means of a Durometer (Shore Hardness)	TS EN ISO 868 (Shore A, Shore D)
Plastic, Rubber, Rubber Materials and Related Products	Plastics Piping Systems-Crosslinked Polyethylene (PE-X) Pipes-Determination of Degree of Crosslinking by Solvent Extraction	TS EN 579
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Dimensions	TS EN ISO 3126
Plastics, Thermoplastic Pipes and Fittings, Plastic Pipe Systems	Determination of Vicat Softening Temperature (VST)	TS EN ISO 2507-1 TS EN ISO 2507-2
Plastics, Thermoplastic Pipes and Fittings, Plastic Piping Systems	Determination of Dichloromethane Resistance at Specified Temperature (DCMT)	TS EN ISO 9852





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Mechanical Products

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Valves	Mechanical Resistance (Leakage And Pressure Test)	TS EN 593/Clause:5.2.1, Clause:5.2.2, Clause: 5.2.3 TS EN 1074-1/ Clause:5.1.1, Clause:5.2.1.1, Clause:5.2.2.1 TS EN 1074-2/ Clause:5.1.1, Clause:5.2.1.1, Clause:5.2.2.1 TS EN 1074-3/ Clause:5.1.1, Clause:5.2.1.1, Clause:5.2.2.1 TS EN 1074-4/ Clause:5.1.1, Clause:5.1.2, Clause:5.2.1.1, Clause:5.2.2.1 TS EN 1074-5/ Clause:5.1.1, Clause:5.2.1.1, Clause:5.2.2 TS EN 1074-6/ Clause:5.1.1, Clause:5.2.1.1, Clause:5.2.2.1 TS EN 1171/ Clause:4.2.3, Clause:5 TS EN 1983/ Clause:4.2.3, Clause:5 TS EN 12266-1/ Annex-A (P10, P11 and P12) TS EN 12266-2/ Annex-A (P20, P21) TS EN 14339/ Clause:4.7.2.1 TS EN 16767/ Clause:4.3.3, Clause:5 TS EN ISO 4126-1/ Clause:6.5, Clause:6.6

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Products and Materials of Metals and Alloys		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Metallic Materials, Metallic and Welded Materials	Tensile testing Room temperature (Max 50 kN)	TS EN ISO 6892-1 EN ISO 6892-1

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Construction Materials, Products and Buildings		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Gully Tops and Manhole Tops for Vehicular and Pedestrian Areas Part 2: Gully Tops and Manholetops Made of Cast Iron	Persistence of Load Carrying Capacity (Load Carrying Capacity)	TS EN 124-2 / Article 5.3.2.2 TS EN 124-1 / Article 7.2 TS EN 124-1/Article 7.3 TS EN 124-1/Article 8.2, ANNEX-A TS EN 124-1 / Article 8.3, ANNEX-B
Gully Tops and Manhole Tops for Vehicular and Pedestrian Areas - Part 5: Gully Tops and Manhole Tops Made of Composite Materials	Bending Test Under Load	TS EN 124-5/Article 5.2.2 TS EN 124-5/Article 6.2, ANNEX-A

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