

COMPANY PROFILE

PROPLAST PIPE AND FITTING MANUFACTURING INDUSTRY is Private owned enterprise which was established by thousand million Ethiopian birr as initial Capital in July, 29, 2013 E.C/August 5 2021 GC. The owner has successful and versatile experience in trading and also manufacturing worldwide for decades. The main objective of the company is production and sales of plastic related construction, packaging, and household materials.

Especially U-PVC pipe, HDPE pipe, PPR pipes, UPVC fitting, PPR fitting .

The factory is located in Amhara Region Gondar, Azezo, Tseda industry zone No-2. The company is upgrading and expansion works to assure better customer satisfaction and business development.

The Company is producing quality plastic product by using modern production techniques through the creation of employment and saving the foreign currency reserve of the country .The factory is managed by qualified engineers and administrative workers specialized in all aspects of manufacturing work.

Values of PPI

Loyalty

01

Accountability

02

Time Management

03

Owner ship emotion

04

Team work

05

Proper use of resource

06

Accepting change

07



Quality Policy

PROPLAST PIPE AND FITTING MANUFACTURING industry is committed to enhance customer satisfaction by delivering and providing quality plastic pipe product and fittings that meet the requirements of our esteemed customers through the application of ISO 9001:2015 QMS & the relevant statutory and regulatory requirements.

Continual improvement has been carried out to maintain the effectiveness of the quality management system within PPI to provide a safe and health working environment that will foster team work innovation and engaging highly qualified and skilled manpower & using modern and the state of art equipment so that our internal and external customer relay on our quality product & services.



Vision

To be a leading plastic product manufacturing in East Africa by 2028 E.C



Mission

To produce quality U-PVC pipe, HDPE pipe, PPR pipes, UPVC fitting, PPR fitting and other plastic products to our estimated customer



Strategic Goals and objectives

We aimed to earn reasonable profit and to create good job opportunity for the nation, specifically in the region 03 by enhance.

- Customer satisfaction
- Product diversification
- Increase market share
- Reduce rework and scrap



Technology

Proplast pip and fitting manufacturing uses Chinese based latest jewel and Zhang Jia Gang Shen Zhou Machineries which are convenient to make different dimensions of high quality Products Suitable for water supply, irrigations, Sewerage buildings etc.

PPI is a certified ISO 9001:2015 company and manufactures its entire product to international standards. It's equipped with a state of the art of the art of testing laboratory which conducts a rigorous testing administration from resin entering the factory to the end of product being delivered to the customer. Due to these approach and quality control mechanisms proplast pipe and fitting manufacturing industry is meeting its local and international quality certificates. PPI gives top priority to using the highest standard of technology to manufacture user friendly products with the highest quality.

Finally, we hope you find this product catalogue helpful and should you require any further information or would like to come and visit our manufacturing industry for full discussions and to assure yourselves that our production and other facility are the conducive work environment; it would be a pleasure to host you.

Products of proplast pipe and fitting manufacturing Industry

PPI produces a wide range of polyethylene (PE) and Polypropylene (PPR) pipe & fitting, Polyvinyl chloride (PVC) pipes & fitting in an international organization of standards (ISO) 9001 controlled environment. The pipes are manufactured to high technical standards, in accordance to ES ISO 4427, ES ISO15874 & ES ISO 1452 respectively, thereby ensuring excellent quality and reliability. PPI pipes and fitting are manufactured from 100 % virgin PE , PPR & PVC resin material for at different pressures bars. In its endeavor of sustainable growth, PPI invested in state-of-the-art machinery, a development which will see its product range wide from a minimum nominal size of HDPE 16 to 225mm , U-PVC 16mm to 160mm, PPR pipes 16mm-63mm nominal pressure 16mm up to 25 bars and different size of PVC and PPR fittings.



HDPE pipes

HDPE pipes which PPI produced is manufactured from high degree of impact resistance and are robust and ductile. HDPE pipes have the ability to absorb pressure surges which make them superior to other plastic materials. PPI mainly uses PE100 with highest specific weight. PPI HDPE pipes are produced in accordance to ESISO4427 to meet the required standard.

Properties of PPI HDPE pipes

High strength & flexibility

- Chemical resistance
- Superior flow characteristics and versatility
- No corrosion, zero leak rate
- Flexible and versatile in all orientation
- Light weight, easy jointing

HDPE pipes use for

- Portable water supply
- Sewerage & Irrigation system
- Water treatment & Mining plant



HDPE Pipes type based on ESISO 4427 by PE100

Nominal outside diameter (mm)	Nominal wall thickness							Max length per roll (mm)	
	Standard size								
	SDR 26	SDR2 1	SDR1 7	SDR13. 6	SDR1 1	SDR 9	SDR7. 4		
	6	8	10	12.5	16	20	25		
Mm	mm	mm	mm	mm	mm	mm	mm		
20					2.0	2.3	3.0	400	
25				2.0	2.3	3.0	3.5	400	
32				2.4	3.0	3.6	4.4	400	
40		2.0	2.4	3.0	3.7	4.5	5.5	200	
50	2.0	2.4	3.0	3.7	4.6	5.6	6.9	200	
63	2.5	3.0	3.8	4.7	5.8	7.1	8.6	100	
75	2.9	3.6	4.5	5.6	6.8	8.4	10.3	100	
90	3.5	4.3	5.4	6.7	8.2	10.1	12.3	100	
110	4.2	5.3	6.6	8.10	10.0	12.3	15.1	100	
125	4.8	6.0	7.4	9.2	11.4	14	17.1		

Remark:- Pipe supply 20-110 by coiled and above that by 6mt, 9mt or 12 mt length or as per customer order.



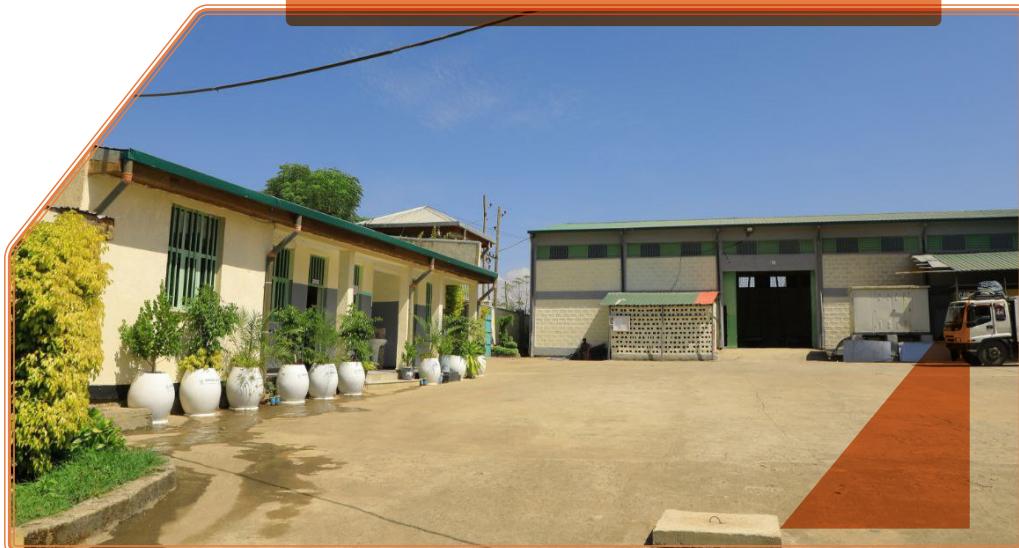
ISO 9001 : 2015
Certified by ECAE

PPR Pipes and Fittings

PPI Produces a complete range of polypropylene (PPR) pipes for cold and hot water distribution system for household ,portable water and buildings.PPI PPR pipes are made from PP random copolymer (PP-R or R200P) granules which have excellent heat resistance ,physical and chemical properties to suit application of portable water distribution and heating system .



ADMINISTRATION OFFICE



PP-R PIPE PLANT





Some advantages of PP-R pipes and fittings

- Maintaining the quality of portable water
- UV –resistance ,long service life
- Excellent internal pressure resistance even at highest temperatures



PP-R Pipes according to ESISO 15874

Nominal outside diameter (mm)	Nominal wall thickness		
	Nominal Pressure (PN) in Bar		
	16	20	25
16	2.0	2.2	2.7
20	2.3	2.8	3.4
25	2.8	3.5	4.2
32	3.6	4.4	5.4
40	4.5	5.5	6.7
50	5.6	6.9	8.3
63	7.1	8.6	10.5



PP-R Packing Line



ISO 9001 : 2015
Certified by ECAE

Reliable PPR Piping and fitting Systems for Hot & Cold Water Applications
PP-R pipe is suitable for use in central cooling systems and is ideal for transporting both hot and cold water in a variety of building systems as well as industrial and marine applications.

Application Areas

- Plumbing installations
- Mobile System Plumbing
- Mobile System Heating
- Mobile System Clean Water
- Drinking water network
- Swimming pool systems
- Industrial clean water systems

Color: green and white

PP-R Pipe length: 4mt

Some of our products of PP-R fitting are Socket, Reducer Socket, Tap, Elbow, Female Elbow/Adapter and Male Elbow/Adapter



Operational or Factory Staff



ISO 9001:2015
Certified by ECAE

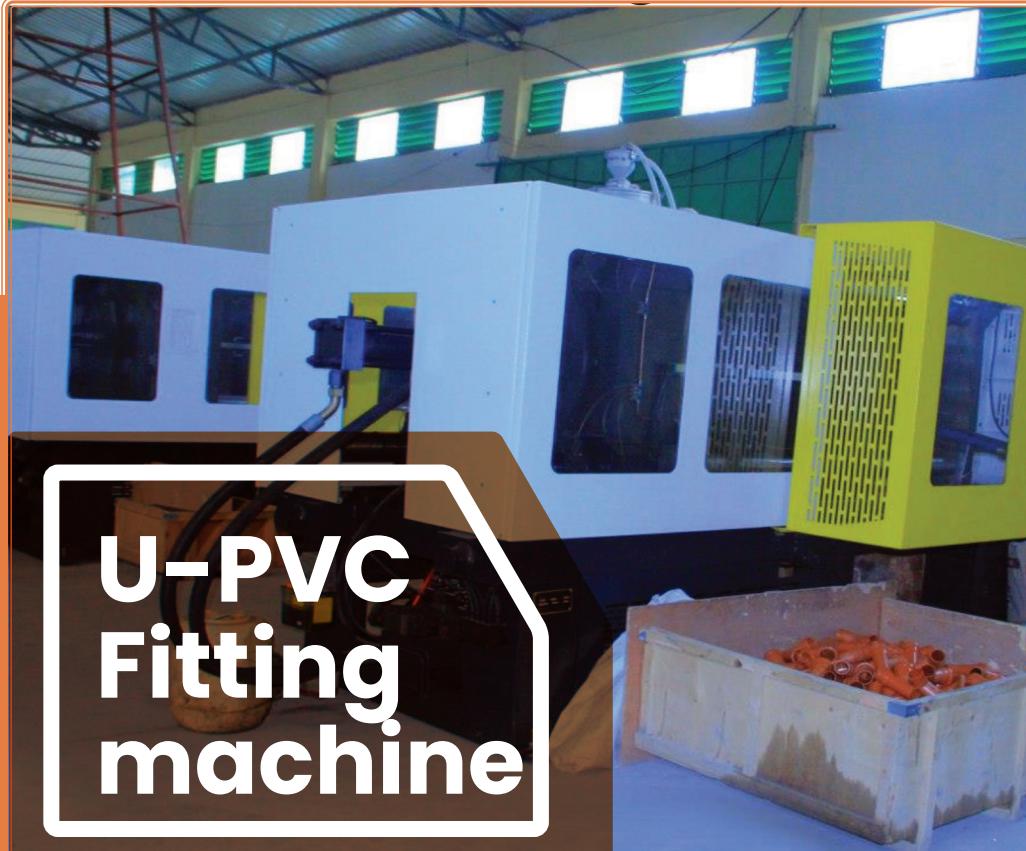
Introduction about Polyvinyl chloride (PVC)

PVC is one of the oldest plastic resins .it was discovered accidentally in 1862, patented in 1913 and eventually came into industrial use in the mid-1950.It is globally the second most used resin below Ethylene .

Unlike HDPE PVC cannot be processed in its pure form and additives need to be added and then blended to increase its heat stability and other

characteristics. It comes in two basic forms which are Rigid and Flexible; the properties are derived by adding a plasticizer during the blending process.PVC pipes are made with rigid or un-plasticized PVC, so it's given the acronym uPVC .Because of its properties uPVC is an ideally suited to many pipe application

**U-PVC
Fitting
machine**



ISO 9001 : 2015
Certified by ECAE

U-PVC pipe and rigid conduit

PVC is one of the oldest plastic resins and it's globally the second most used resin below ethylene. Unlike HDPE PVC cannot be processed in its pure form and additives need to be added and then blended to increase its heat stability and other characteristics.

Some properties of U-PVC pipes

- Corrosion resistant
- Lightweight
- Flame resistance
- Chemical resistance & UV stability
- Quicker installation time & less environmental impact

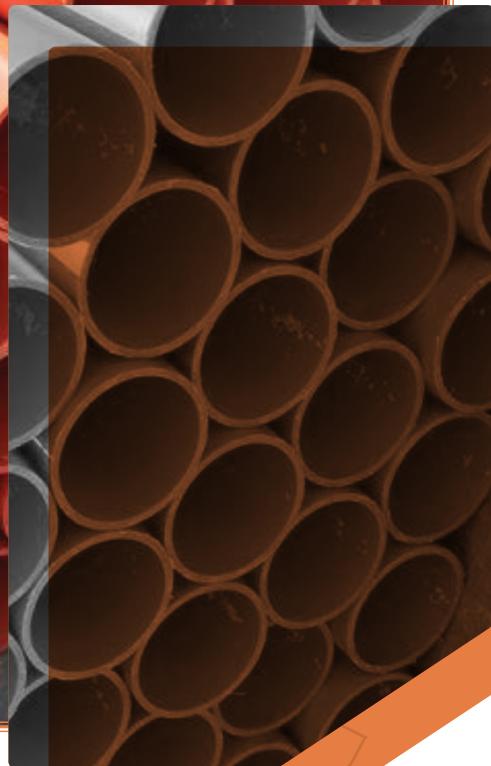
Some main features of PPI pressure and Drainage pipes are

- Resistant to a wide range of chemicals /fluids
- Easy to install
- Fully compliant to the ISO 1452 standards and our product colors are dark ,grey , light grey & orange

Orange U-PVC pipes for the use of sewage and drain, Telecommunication and alarm or signal lines

Some of our products of U-PVC fitting are tee , Ventilation Cap, Tap, Elbow , Socket , Y-Branch , Cleanout and Reducer





U-PVC Pipe Plant



ISO 9001 : 2015
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Nominal Thickness & weight /meter of U-PVC pipes OD 16-225mm produced as per ESISO 1452-2

Nominal outside diameter (mm)	PN4		PN6		PN10		PN16	
	Thickness (mm)	Kg/Wt						
							1.5	0.12
16							1.5	0.15
20							1.9	0.24
32					1.6	0.30	2.4	0.37
40			0.34	0.34	1.9	0.38	3.0	0.57
50			0.42	0.42	2.4	0.65	3.7	0.90
63			0.64	0.64	3.0	1.00	4.7	1.50
75	1.5	0.63	0.89	0.89	3.6	1.30	5.6	2.00
90	1.8	0.85	1.27	1.27	4.3	1.90	6.7	2.78
110	2.2	1.27	1.50	1.50	4.2	2.30	6.6	3.50
125	2.5	1.62	1.98	1.98	4.8	2.99	7.4	4.49
140	2.8	2.00	2.48	2.48	5.4	3.77	8.3	5.63
160	3.2	2.65	3.33	3.33	6.2	5.00	9.5	7.40
180	3.6	3.30	4.00	4.00	6.9	6.17	10.7	9.34
200	3.9	4.10	5.00	5.00	7.7	7.50	11.9	11.50
225	4.4	5.13	6.30	6.30	8.6	9.65	13.4	14.20

PPI Grey U-PVC pipes for the use of water supply plumbing pipe system.

The main Features of PPI pressure and Drainage pipes

- Fully compliant to the ES ISO standards
- Easy to install
- Resistant to a wide range of chemicals
- Strong and resistant to impact





Specification	
Standard	ESISO 1452
Material	100% pure uPVC resin and additives
Joints	Solvent cement weld socket and rubber seal joint
Color available	Black ,Grey and orange
Length	Pipes are normally supplied in 6mt overall length or 5.8 mt to fit inside containers

Proplast pipe and fitting manufacturing industry **U-PVC pipes**

uses for

- Water supply
- Agriculture and Irrigation
- Industrial purpose
- Drainage and Sewer system
- Rain water collection
- Electrical and Telecommunications



ISO 9001: 2015
Certified by ECAE



Product of U-PVC Pipes

Recycling of U-PVC, PE and PP-R scrap materials

PPI recycling plant had a capacity of 500 kg/hr. not only crushing but also washing the scrap from all dirt with to make the recycled material as good as the original material for rework in the extrusion. The recycling PE, U-PVC and PP-R plastic products which will keep the environment from being polluted by non-rotten materials. In continuous base in addition to internal assuring of our product quality we are test by independent body Ethiopian conformity assessment enterprise.

Some the test results are





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Ethiopian Conformity Assessment Enterprise

EPC (No) 2127/2/723/25
 EPC (Date) 17 NOV 2023

**To: Proplast Pipe and Fitting Manufacturing.
Gondar**

On your letter dated October 27, 2023 you have requested for the analysis on HDPE Pipe, UPVC Pipe, PPR Pipe, PPR Fitting.

Accordingly, the analysis is completed as per your request and hence you find the report attached here with.

Regards,


Solomon Muluberhan
 Customer Service, Manager



Enc: 10 Page of test reports No. 100000552-65,2394-95,2079-82/16

CC. ECAE

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ወደ አቅ በታች የሚያደርግ!
Moving you forward!



	የኢትዮጵያ የተከማማንነት ሚኒስቴር Ethiopian Conformity Assessment Enterprise	Document No. TLD/F7.08-1
Title: TEST REPORT የፌታና ሪፖርት		Copy No: -
		Rev No: 3
		Page No: 1 of 1
		Page No: 25 Oct 22

Name and address of client: Proplast Pipe and Fitting Manufacturing, Gondar Test Report No: MTR/2365/16

Tel: +251-912-64-80-10 Test Order No: --

Fax: -- Reported date: 17/11/2023

E-mail: -- Date of sampling Not specified

Date sample Received 27/10/2023 Place of sampling Not specified

Client Sample code: -- Sampled and submitted by

(Brand) Client 10/11/2023 – 16/11/2023

Type of sample: UPVC pipe (110 mm) PN 6 Date tested: ES ISO 1452-2:2012

Laboratory Designation Number: 16046027 Method Specification & IS 4985: 2000

S/N	Characteristics tested	Test Method/Specification	Standard Requirements			Test result	Comment
			Min	Nom	Max		
1.	Outside Diameter (mm)	ES ISO 3126:2005/ ES ISO 1452-2:2012	110.0	-	110.4	110.1	Pass
2.	Thickness (mm)		2.7	-	3.2	2.9	Pass
3.	Density (g/cm ³)	ESISO 1183-1:2012/ ES ISO 1452-2:2012	1.350	-	1.460	1.374	Pass
4.	Longitudinal reversion (%)	ESISO 2505:2005 /ES ISO 1452-2:2012	-	-	5	4	Pass
5.	Resistance to internal pressure	ES ISO 1167-1 & 2:2013 / ES ISO 1452- 2:2012	No failure during the test			No failure during the test	Pass

- Test temperature : 20 °c
- Stress applied : 42 MPa
- Test pressure : 20.34 bars
- Test duration : 1 hour
- Type of end cup : Type A
- Total length of sample : 550 mm
- Free length of sample : 330 mm
- Outside Diameter : 110.0 mm
- Minimum thickness : 2.60 mm

Remark

- 1 This test report relates only to the specific sample product which has been tested by ECAE testing laboratory.

Test report authorized by, Name Liyew Wudie Position Analyst II Sign. 



ISO/IEC 17025:2017 Accredited Testing Laboratory

11145

011 6 51-64-68, Fax 011 6 45-97-20, E-mail info.cs@eca-e.com Web www.eca-e.com

BOLE SUBCITY, WOREDA 6, ADDIS ABABA, ETHIOPIA

 ECAE የኢትዮጵያ የተሰጠውንና ማዘኑ ድርጅት	የኢትዮጵያ የተሰጠውንና ማዘኑ ድርጅት Ethiopian Conformity Assessment Enterprise		Document No: TLD/F7.08.1
Title: TEST REPORT የፌታዊ ልማት		Copy No: -	Rev No: 2
		Page No: 1 of 1	Effective Date: 07 Apr 22

Name and address of client: Proplast Pipe and Fitting Manufacturing, Gondar
 Tel: +251-912-64-80-10
 Fax: --
 E-mail: --
 Date sample Received: 27/10/2023
 Client Sample code: --
 Type of sample: PPR pipe 50
 Laboratory Designation Number: 16046028

Test Report No: MTR/2394/16
 Test Order No: --
 Reported date: 17/11/2023
 Date of sampling: Not specified
 Place of sampling: Not specified
 Sampled and submitted by: Client
 Date tested: 01/11/2023 – 13/11/2023
 Method Specification: ES ISO 15874-2:2013

S/N	Characteristics tested	Test Method/ Specification	Standard Requirements			Test result	Comment
			Min	Nom	Max		
1.	Outside Diameter (mm)	ES ISO 3126:2005/ ES ISO 15874-2:2013	50	-	50.5	50.0	Pass
2.	Thickness (mm)	ES ISO 3126:2005/ ES ISO 15874-2:2013	6.9	-	7.7	7.7	Pass
3.	Longitudinal reversion (%)	ES ISO 2505:2005/ ES ISO 15874-2:2013	-	-	2	0.6	Pass
4.	Density (g/cm³)	ES ISO 2505:2005 / -	-	-	-	0.958	-
5.	Resistance to internal pressure	ES ISO 1167-1 & 2:2013 / ES ISO 15874-2:2013	No failure during the test period			No failure during the test period	Pass

- Test temperature : 20 °c
- Stress applied : 16 MPa
- Test pressure : 53.01 bar
- Test duration : 100 hours
- Type of end cup : Type A
- Total length of sample : 400 mm
- Free length of sample : 250 mm
- Outside Diameter : 50.0 mm
- Minimum thickness : 7.11 mm

Remark

- 1 This test report relates only to the specific sample product which has been tested by ECAE testing laboratory.

Test report authorized by, Name Liyew Wudie Position Analyst II Sign 



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		Page No: 1 of 1	Page No: 25 Oct 22

and address of client: Proplast Pipe and Fitting Manufacturing, Gondar Test Report No: MTR/2080/16

Tel: +251-912-64-80-10 Test Order No: -

Fax: -- Reported date: 07/11/2023

E-mail: -- Date of sampling Not specified

Date sample 27/10/2023

Received

Client Sample code:(Brand) UPVC Reducer Ø 110 to 75

Place of sampling Not specified

Sampled and submitted by Client

Type of sample: mm Date tested: 31/10/2023 -03/11/2023

Laboratory Designation Number: 16046031 Method Specification ES ISO 1452-2:2013

S/N	Characteristics tested	Test Method/Specification	Standard Requirements			Test result	Comment
			Min	Nom	Max		
1.	Mean inside diameter of Socket, d_{im} (mm)	ES ISO 3126:2005/ ES ISO 1452-2:2012	75.4	-	-	75.5	Pass
2.	Outside diameter	ES ISO 3126:2005/	-	-	-	110	-
3.	Density (g/m^3)	ES ISO 1183-1:2012 ES ISO 1452-2:2013	1.350	-	1.460	1.432	Pass

Remark

- This test report relates only to the specific sample product which has been tested by ECAE testing laboratory.

Test report authorized by, Name Liyew Wudie Position Analyst II Sign 



ISO/IEC 17025:2017 Accredited Testing Laboratory

✉ 11145

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	Ethiopian Conformity Assessment Enterprise	Document No: TLD/F7.08-1
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		Page No: 1 of 1 Effective Date: 07 Apr 22

Name and address of client: Proplast Pipe and Fitting Manufacturing, Gondar Test Report No: MTR/2081/16

Tel: +251-912-64-80-10 Test Order No: -

Fax: -- Reported date: 07/11/2023

E-mail: -- Date of sampling: Not specified

Date sample Received Place of sampling: Not specified

Client Sample code(brand) Sampled and submitted by Client

Type of sample: PPR Fitting Normal Elbow Ø 50 mm Date tested: 31/10/2023 – 03/11/2023

Laboratory Designation Number: 16046032 Method Specification: ESISO 15874-3:2013

S/N	Characteristics tested	Test Method/Specification	Standard Requirements according to ES ISO 15874-3:2013 root D ₁			Test result	Comment
			Min	Nom	Max		
1.	Inside Diameter (mm)	ES ISO 3126:2005/ ES ISO 15874-3:2013	48.9	-	49.4	49.0	Pass
2.	Density (g/m ³)	-	-	-	-	0.91	-

Remark

- This test report relates only to the specific sample product which has been tested by ECAE testing laboratory.

Test report authorized by, Name: Liyew Wudie Position: Analyst II, Sign: 

ISO/IEC 17025:2017 Accredited Testing Laboratory

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