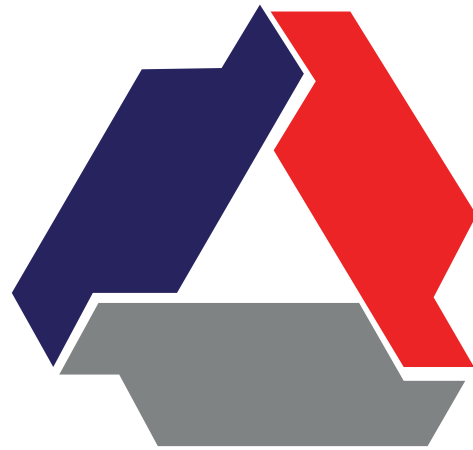


# PE & PVC PIPES PRODUCTS CATALOG



**QIPLAST SARL**



ISO 9001  
BUREAU VERITAS  
Certification



# Behavior of Pipes under Internal Pressure Test

The internal pressure test is designed to predict the lifetime of pipes in field conditions by simulating the behavior of pressure pipes at elevated temperatures and under internal pressure. The internal pressure test is carried out in 3 stages.

**Stage 1:** This stage entails subjecting the pipe to mechanical overload.

**Failure at stage 1:** plastic instability

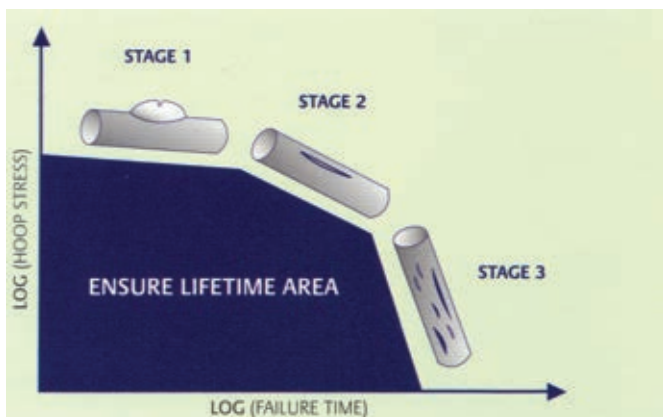
**Stage 2:** This stage entails increase in the curve's gradient.

**Failure at stage 2:** transitions of brittle failures are common at this stage

**Stage 3:** At this stage, failure time is virtually independent of hoop stress.

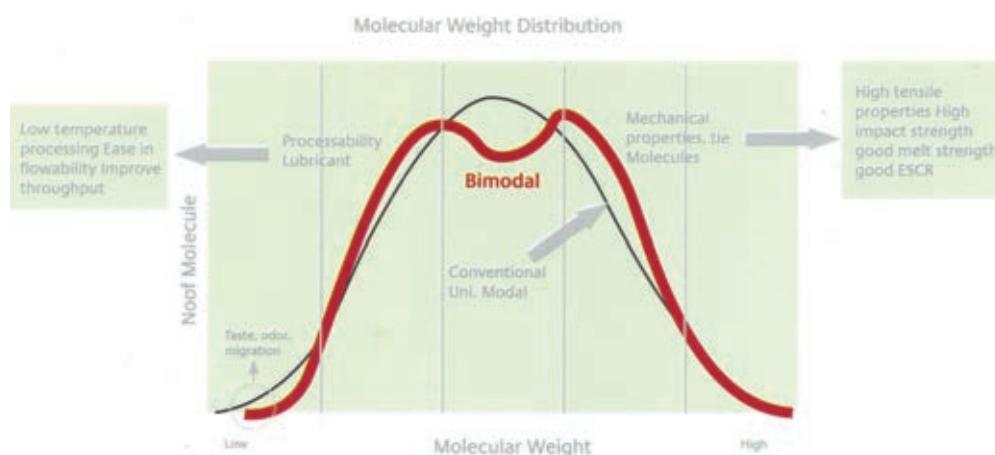
**Failure at stage 3:** brittle

When testing polyethylene in high temperature water, it exhibits failures at stages 1 and 2 only. However, when exposed to low stress levels for a sufficiently long period of time, it exhibits failures at stage 3 also.



## Multimodal HDPE

Multimodal HDPE demonstrates a high resistance to slow crack growth and rapid crack propagation, representing an alternative to traditional material; it is the new generation polyethylene. Multimodal HDPE is being used more often in pipelines that distribute

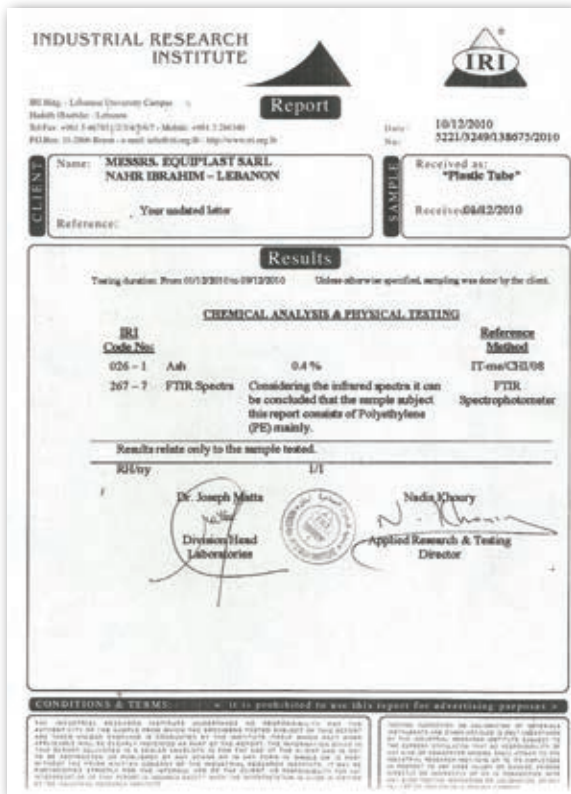


# COMPANY PROFILE



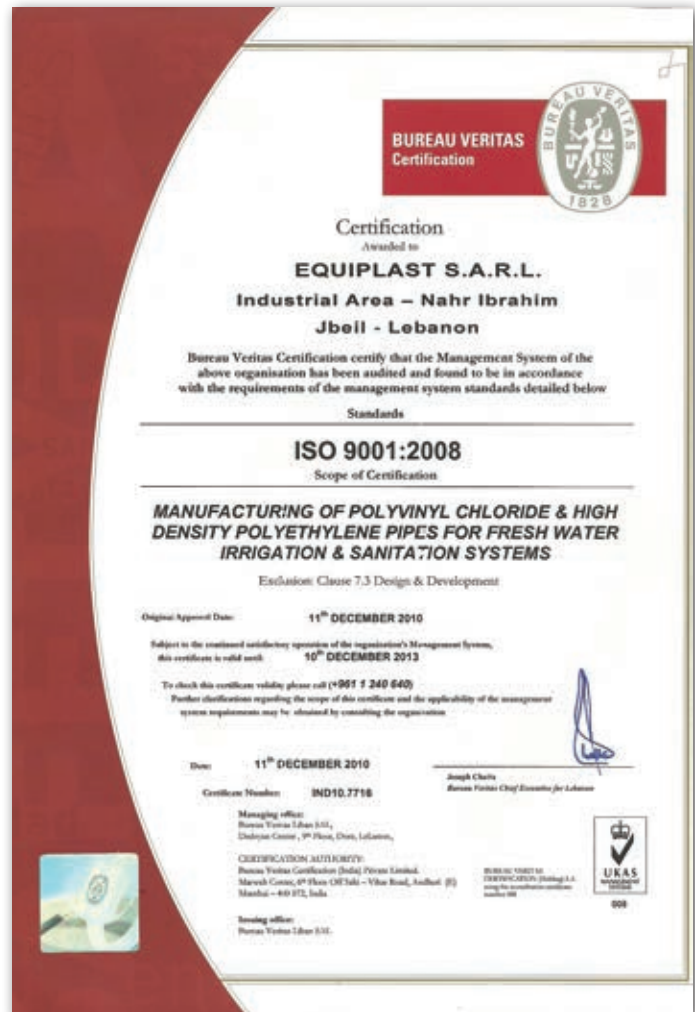
EQUIPLAST SARL is one of the leading manufacturers of water pipe systems in Lebanon. Founded in 1995, EQUIPLAST constantly strives to deliver the best manufacturing its products according to international standards. Located in Nahr Ibrahim, EQUIPLAST holds the certificate for successfully meeting the requirements of the ISO 9001:2008.

EQUIPLAST SARL specializes in the production of all pipes and fittings used in water systems, drainage projects, agricultural irrigation systems, electrical use and for the conduction of other abrasive substances.



The main test performed by Industrial Research Institute for EQUIPLAST SARL are:

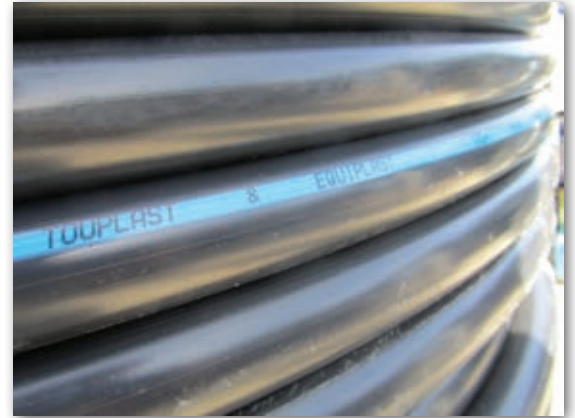
- Inner Pressure Test
- Density Test
- Pull Test
- Tearing Strength Test
- Hitting Test
- Impact Test.



Through the implementation and continual improvement of a Quality Management System Based on the international standard ISO 9001:2008, we are ready to deliver the best services in our industry.

# POLYETHYLENE PIPES (PE)

EQUIPLAST SARL produces high quality, high performance polyethylene pipes, PE 100 and PE 80, in blue and black colors. PE pipes from EQUIPLAST are manufactured in consistency with international standards EN12201. High density polyethylene pipes are also available in special lengths of 25M, 50M, 100M and 200M.



## PROPERTIES & BENEFITS

PE 100 is manufactured of strong material developed as a result of much studying and research. The benefit of PE pipes lies in its thin walls that allow for greater inner diameter; this in turn makes it possible to maintain the same flow even at smaller sizes, saving raw material in the process.

Despite being less flexible than LDPE, HDPE is better because of its superior physical and chemical properties and the fact that it withstands sterilization by boiling.

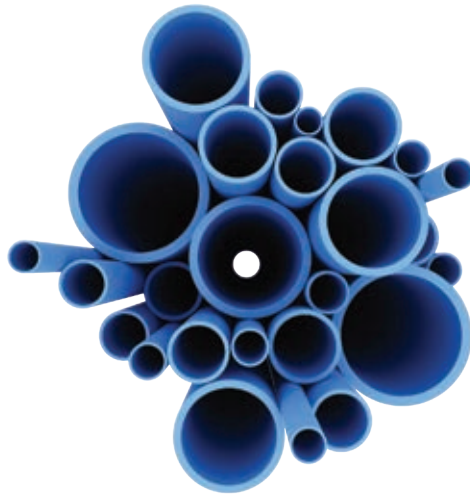


# RELIABILITY IN THE FIELD

The ease of use and flexibility of PE pipes makes them a good choice for above ground as well as underground installation as gas pipes. It is important though to take into consideration the working pressures specified in related standards.



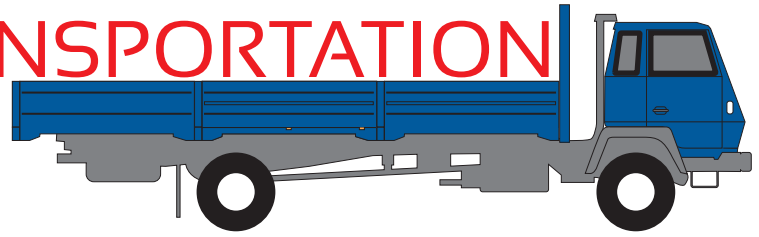
- No chamfering or lubrication of pipes required
- Distinctive blue barb for easy identification for use on rural pipe
- Well established and reliable technology specifically designed to suit the conditions
- Toughness of material – high impact resistance, UV resistance and long life
- Full range of sizes and configurations from 16mm to 125mm
- Ease of installation: fittings can be tightened by hand



# MANUFACTURING



# TRANSPORTATION



At EQUIPLAST SARL, we pride ourselves on meticulous work: manufacturing of our products is controlled by computers in our laboratories, reducing the risk of error. Samples are periodically studied by our engineers to ensure quality.



Our employees are highly qualified and well trained.



EQUIPLAST offers its customers free delivery of pipes and other products.



EQUIPLAST guarantees the secure and safe transportation of pipes from our factory to our customers' doors.

## STORAGE



# HDPE 100 PIPES TABLE

d Outside Diameter	s SDR 26 (PN 6)	s SDR 17 (PN 10)	s SDR 11 (PN 16)	s SDR 7.4 (PN 25)
16				
20			1.9	3
25		1.8	2.3	3.5
32		1.9	2.9	4.4
40	1.8	2.4	3.7	5.5
50	2	3	4.6	6.9
63	2.5	3.8	5.8	8.6
75	2.8	4.5	6.8	10.3
90	3.5	5.4	8.2	12.3
110	4.2	6.6	10	15.1
125	4.8	7.4	11.4	17.1

# HDPE 80 PIPES TABLE

d Outside Diameter	s SDR 17 (PN 8)	s SDR 13.6 (PN 10)	s SDR 9 (PN 16)	s SDR 6 (PN 25)
16				
20			2.3	3.4
25		2	3	4.2
32	2	2.4	3.6	5.4
40	2.4	3	4.5	6.7
50	3	3.7	5.6	8.3
63	3.8	4.7	7.1	10.5
75	4.5	5.6	8.4	12.5
90	5.4	6.7	10.1	15
110	6.6	8.1	12.3	18.3
125	7.4	9.2	14	20.8

# PVC SOIL & WATER PIPES

PVC pipes are adequately used to drain fluids within a building. EQUIPLAST SARL manufactures PVC soil and water pipes in accordance with international standards. Pipes are available in 25 and 50-meter lengths & diameters ranging between 1/2" to 1 1/2". Other lengths can be provided upon demand.

أخضر مبطن سميك  
CAMELIA أصفر سميك باب أول  
CRYSTAL شفاف سميك مع خيط

أصفر  
أخضر مبطن وسط  
CRYSTAL شفاف مع خيط

Diameter (in inch)	Thickness (in mm.)	Length (in m.)
1/2"	4.0	25 - 50
3/4"	4.8	25 - 50
1"	5.0	25 - 50
1 1/4"	5.5	25
1 1/2"	6.0	25

Diameter (in inch)	Thickness (in mm.)	Length (in m.)
1/2"	2.5	25 - 50
3/4"	3.0	25 - 50
1"	4.0	25 - 50
1 1/4"	4.5	25
1 1/2"	4.8	25

SUPER CAMELIA أصفر  
GOMA - AQUARIUS ملون  
أحمر تشيكي باب أول سميك (20m)

شفاف شقله

Diameter (in inch)	Thickness (in mm.)	Length (in m.)
1/2"	5.0	25 - 50
3/4"	5.5	25 - 50
1"	6.0	25 - 50

Diameter	Thickness (in mm.)	Length (in m.)
8m	2.0	25 - 50
9m	2.2	25 - 50
1/2"	3.0	25 - 50





# PROPERTIES & BENEFITS

PVC pipes offer suitable and adequate solutions for a number of sectors in the construction and public works sector.

PVC pipes have many benefits that make them a good choice for a variety of projects. Some such benefits include:

- Low weight
- High impact/tensile strength
- Good hydraulic properties
- Smooth inner surface that allows for greater flow
- Non-conductive properties which make PVC pipes immune to electro-chemical corrosion
- Flame resistance to external ignition sources below 450°C
- Abrasion resistance
- Highly recyclable



## STORAGE & TRANSPORTATION

Workers at EQUIPLAST SARL are well trained to properly store and load PVC pipes to ensure no damage is caused to the pipes.

EQUIPLAST offers its customers free delivery of PVC pipes and certifies the integrity of their delivered products through safe handling, loading and unloading.



# RAW MATERIAL

In the production of its PVC and PE pipes, EQUIPLAST uses high quality raw material from different sources. For LLDPE in injection molding and film, EQUIPLAST uses raw material from Sabic and Lotrene. For HDPE pipes in injection molding, film & blowing, raw material comes from Petro Rabigh and Marlex. As for PVC, EQUIPLAST's main source of raw material is Ricom.



## QUALITY ASSURANCE & PRODUCT TESTING

*EQUIPLAST is committed to a philosophy of complete quality assurance in production and delivery.*

With an ISO 9001:2008 certification, the EQUIPLAST family is dedicated to continuously striving and working towards maintaining this high certification through constant improvement and advancement.

ISO 9001

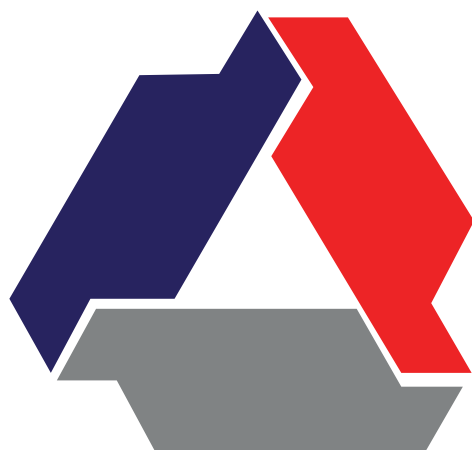
**BUREAU VERITAS**  
Certification



In this spirit, EQUIPLAST engineers perform quality tests on all pipes and products in house at the factory, as well as through research and testing facilities such as the IRI..



*All pipes and products are tested and deemed conforming to international standards relevant to each type of pipe and its uses.*



**EQUIPLAST S.A.R.L**

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to view the map

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Certification

