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Piping industry with German Standards
DIN 8077 and 8078

► Background Impex

PP-R Advantages

- Safety of potable water and long-term reliability
- Resistance to corrosion, tuberculation and deposits
- Chlorine and chloramine resistance
- Lightweight, therefore easily to transport
- Durability and toughness to survive jobsite installations
- No flame, glue or solders are used for joining, heat-fused joints
- Available in wide range of sizes
- Natural Insulator and low thermal conductivity
- Professional installed appearance

PP-R Applications

- Hot- and cold-water plumbing distribution, residential and commercial
- Heating and chilled water piping
- Suitable for many industrial and process piping applications

Impex

A pioneering company since 1999 in introducing to the Egyptian market Polypropylene and PVC in both pipes and connecting parts. Initially the company started by trading with profound international companies, trading in complete systems for fresh water supply for domestic usage.

By 2015, Impex initialized its own local production in Egypt with the same specs and standards to compete with the Egyptian market. The demand has spread all over Egypt and neighboring countries with sustainable and stable database of over 300 distributor and hundreds of traders by enhancing its technicians, customers and sole traders.

Certificado · Sertifika · प्रमाण पत्र · Zertifikat · شهادة

CERTIFICATE OF REGISTRATION



IMPEX FOR TRADING AND INDUSTRY
28 Abu Rawash Alexandria Dessert Road, Cairo- 12677 - Egypt

Price / m (LE)

This certificate verifies that the above Organisation has been audited on the above address for scope as under and found to be in accordance with the requirements of Management system:

ISO 9001:2015 Quality Management System

Manufacturing of Polypropylene Pipes and Fittings


Certificate No. : Q-21022803

Date of initial registration	28-02-2021
Date of this certificate/Issue No.	28-02-2021
Certificate Expiry	27-02-2022*
Recertification Due	27-02-2024

*After successful completion of Annual Surveillance Audit, New certificate will be issued.

This Certificate is valid per Rules and Regulations of ECI, & also the surveillance audits conducted atleast once a year
To check the certification validity please visit our website- www.theeci.com or contact at- info@theeci.com




Director

Equalitas Certifications Limited

Accreditation by International Accreditation Service, 3003 Seaborn Street Suite 100 Frem, California 92321-1722, USA
512, DCA 1, District Center, Janakpuri, New Delhi-110058, India, Ph: +91 11 46631431, 9540731844

Rev 01

E-mail: info@theeci.com Website: www.theeci.com

► Quality Assurance

Property of PP-R	Unit	Value
Density	g/cm ³	0.9
Melt Flow Rate MFR (2300 C/2.16 kg)	g/10min	0.3
Coefficient of linear thermal expansion	1/K	1.5 x 10 ⁻⁴
Thermal Conductivity	W/mK	0.24
Modulus of Elasticity (Tension)	MPa	900
Charpy impact test , notched at+ 23°C	kJ/m ²	20
Charpy impact test, Notched at+ 0°C	kJ/m ²	4
Charpy impact test, Notched at- 23°C	kJ/m ²	2

► Features

For Potable Water installations

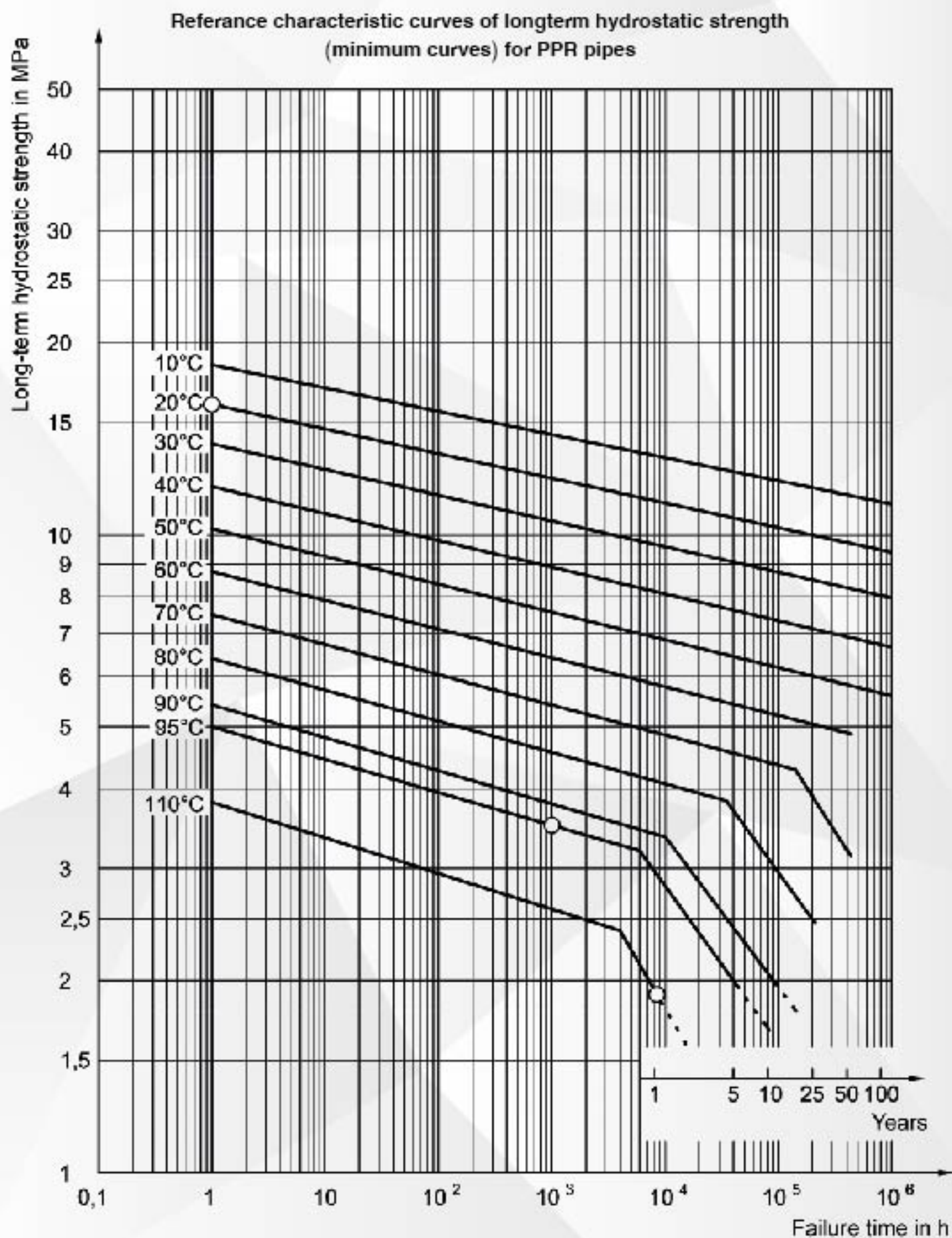
Temperature	Service Life	Safety – Factor 1.5			Safety – Factor 1.25
		Fusiotherm Pipe SDR 11	Fusiotherm Pipe SDR 7.4	Fusiotherm - Pipe SDR 6 Fusiotherm Stabi composite Pipe	Fusiotherm stabi Composite Pipe (E DLN 8077)
		Nominal Pressure			
		PN 10	PN 16	PN 20	
Permissible Working Pressure					
20 °C	1	15.0	23.8	30.0	28.6
	5	14.1	22.2	28.1	26.9
	10	13.7	21.7	27.3	26.2
	25	13.3	21.1	26.5	25.3
	50	12.9	20.4	25.7	24.6
30 °C	1	12.8	20.2	25.5	24.4
	5	12.0	19.0	23.9	22.8
	10	11.6	18.3	23.1	22.2
	25	11.2	17.7	22.3	21.4
	50	10.9	17.3	21.6	20.8
40 °C	1	10.8	17.1	21.5	20.7
	5	10.1	16.0	20.2	19.3
	10	9.8	15.6	19.6	18.8
	25	9.4	15.0	18.8	18.1
	50	9.2	14.5	18.3	17.6
50 °C	1	9.2	14.5	18.3	17.5
	5	8.5	13.5	17.0	16.3
	10	8.2	13.1	16.5	15.8
	25	8.0	12.6	15.9	15.2
	50	7.7	12.2	15.4	14.7
60 °C	1	7.7	12.2	15.4	14.7
	5	7.2	11.4	14.3	13.7
	10	6.9	11.0	13.8	13.3
	25	6.7	10.5	13.3	12.8
	50	6.4	10.1	12.7	12.3
65 °C	1	11.9	14.9	14.9	11.6
	5	10.8	13.5	13.5	10.6
	10	10.0	12.6	12.6	10.0
	25	8.5	10.7	10.7	9.1
	50	7.2	10.2	10.2	8.5
70 °C	1	10.3	13.0	13.0	12.4
	5	9.5	11.9	11.9	11.5
	10	9.3	11.7	11.7	11.1
	25	8.0	10.1	10.1	9.7
	30	7.0	8.8	8.8	9.3
	50	6.7	8.5	8.5	8.2
75 °C	1	9.9	12.3	12.3	9.5
	5	8.6	10.7	10.7	8.5
	10	7.5	9.3	9.3	7.7
	25	6.1	7.5	7.5	6.5

Potable water (cold)

Potable water (warm)

Stabi composite Pipe : high working stress at Lower wall thickness and higher flow rate

► Features



Features

Outside diameters, wall thicknesses, S/SDR series and masses

Outside diameters, wall thicknesses, S/SDR series and masses

Pipe series 3																			
20		16		12.5		8.3		5		3		4		2.2		2.5		2	
Standard dimension ratio SDR																			
41		32		25		17.6		11		7.1		4.8		3.2		2.5		2	
e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b
mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.8	2.642	3.8	3.652
12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.8	3.757	2.0	3.621
16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.4	1.325	2.2	2.121
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.3	2.187	2.3	2.193
25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.181	2.3	2.101
32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.6	2.228	2.6	2.255
41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.4	2.338	3.4	2.438
50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.4	2.338	4.4	2.438
63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.6	2.235	5.6	2.275
80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.7	2.671	6.7	2.775
100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.0	2.829	8.0	2.894
125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.6	3.259	9.6	3.344
160	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.0	3.411	12.0	3.511
200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.0	3.627	15.0	3.733

^a The minimum wall thickness has been set as e = 1.8 mm.

^b The masses have been calculated taking an average density of 0.910 g/cm³. For other densities, the masses shall be corrected proportionally. Half the specified tolerance has been added to the wall thickness. The values have been rounded to 3 decimal places.

(continued)

Pipe series 3																				
20		16		12.5		8.3		5		3		4		2.2		2.5		2		
Standard dimension ratio SDR																				
41		32		25		17.6		11		7.1		4.8		3.2		2.5		2		
e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	e ^a	Mass ^b	
mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	
175	2.1	0.552	3.4	1.12	4.2	1.21	3.2	1.35	6.6	2.28	10.0	3.91	12.2	3.82	15.3	4.26	18.3	5.21	22.3	6.78
125	3.1	1.38	3.6	1.45	4.6	1.76	7.1	2.55	7.4	2.95	11.2	3.91	14.2	4.66	13.3	5.21	20.3	6.47	26.3	7.48
140	3.3	1.48	4.1	1.65	5.4	2.23	8.1	3.26	8.2	3.30	12.7	4.37	15.7	5.08	16.2	6.25	22.2	6.92	28.2	8.38
160	4.3	1.31	4.5	2.32	6.0	2.82	9.1	4.17	9.8	4.33	14.8	5.38	17.3	7.02	21.3	8.74	25.3	10.3	32.3	12.2
180	4.4	2.30	5.1	2.94	7.0	3.68	10.2	5.22	10.7	5.47	16.4	6.97	20.4	9.04	24.0	11.4	28.0	12.4	36.1	15.4
200	4.9	2.62	5.2	3.85	7.4	4.50	11.4	6.20	11.9	6.75	18.2	8.90	22.4	11.9	27.4	14.1	32.2	16.3	—	—
225	6.5	3.70	6.1	4.47	8.6	5.64	12.6	8.18	13.4	8.28	20.8	12.6	26.2	16.1	30.3	17.2	37.8	20.2	—	—
250	6.2	4.53	7.3	6.97	9.6	5.99	14.2	10.1	14.8	10.5	22.2	15.5	27.3	18.0	34.2	22.1	—	—	—	—
280	6.9	5.73	8.6	7.69	11.3	8.72	15.6	12.8	16.6	12.2	25.4	18.4	31.3	23.3	38.3	27.8	—	—	—	—
315	7.7	3.20	9.7	8.97	12.1	11.1	17.2	16.2	18.7	16.7	28.2	24.0	35.2	29.0	—	—	—	—	—	—
355	8.7	5.14	10.5	11.3	13.6	14.0	20.1	20.2	21.1	21.2	32.2	31.2	38.7	37.4	—	—	—	—	—	—

^a The minimum wall thickness has been set as e = 1.8 mm.

^b The masses have been calculated taking an average density of 0.910 g/cm³. For other densities, the masses shall be corrected proportionally. Half the specified tolerance has been added to the wall thickness. The values have been rounded to 3 decimal places.

Topilene® R200P

Polypropylene Random Copolymer
For PP-R Pipes and Fittings(Pressure Pipes Systems)

Product Description

Topilene® R200P is a specially designed polypropylene random copolymer (PP-R, natural colored) that features excellent long-term hydrostatic pressure resistance and heat stability. It is suitable for hot & cold water supply pipes and fittings as well as radiator connecting pipes. It is the outcome of HYOSUNG's integrated polymerization and crystallization technology with advanced PP manufacturing process technique.

Characteristics

Typical Application	Hot & cold water supply pipes and fittings / Radiator connecting pipes
Features	Excellent long term hydrostatic pressure resistance and heat stability (PPR 125, MRS 12.5 MPa, CRS 3.3 MPa) / Excellent stiffness and impact strength balance / Chemical stability / Environment friendly / Enhanced processability
Compliance	The pipes produced with Topilene® R200P complies with the hydrostatic pressure requirements according to DIN 8078 and ISO/DIS 15874. It complies with the requirements of NSF/ANSI 14, FDA 21 CFR 177.1520 and (EU) No 10/2011 for food contact. This product corresponds to the DVGW W270/KTW guidelines and GB/T17219-1998 for drinking water system.

Typical Properties

Resin Properties	Method	Value	Unit
Melt Index(230°C, 2.16kg)	ASTM D1238	0.25	g/10min
Density	ASTM D792	0.90	g/cm ³
Tensile Strength at Yield	ASTM D638	270	kg/cm ²
Flexural Modulus	ASTM D790	9000	kg/cm ²
Notched Izod Impact Strength(23°C / -10°C)	ASTM D255	N.B / 5.0	kg·cm/cm
Rockwell Hardness	ASTM D785	75	R-Scale
Heat Deflection Temperature	ASTM D643	90	°C
Vicat Softening Point	ASTM D1525	130	°C
Mean Coefficient of Linear Thermal Expansion(0°C-80°C)	Dilatometer	1.5*10 ⁻⁴	K ⁻¹

The values listed above are typical values for reference purpose only and shall not be construed as specifications.

Storage and Handling

This product should be stored in dry condition at temperature below 40°C and protected from UV-light. When condensation is visible or can be expected, pre-drying is recommended. (Drying condition: 80-100°C/2-4hours at air circulated condition)

Contacts

Head Office	235, Danpo-daero, Seocho-gu, Seoul, Korea 06578 Tel: +82-2-2146-5451~7 Fax: +82-2-2146-5428
Online	www.hyosung.com www.topilene.com



HYOSUNG PP/DH Performance Unit

► Product Range

Pipe SDR 6 (PN 20)

Pressure stage : PN 20
 Form Supplied : 4 meters in straight length
 Colour : Green



Pipe		Weight (Kg/m)
Dimension (mm)	Packing (unit)	
20	20	0.172
25	25	0.266
32	10	0.434
50	5	1.04
63	4	1.65
75	2	2.34
90	2	3.36
110	1	5.01

Pipe SDR 7.4 (PN 16)

Pressure stage : PN 16
 Form Supplied : 4 meters in straight length
 Colour : Green



Pipe		Weight (Kg/m)
Dimension (mm)	Packing (unit)	
32	10	0.37
50	5	0.896
63	4	1.41
75	2	2.01
90	2	2.87
110	1	4.3

Product Range

Pipe SDR 11 (PN 10)

Pressure stage :PN 20

Form Supplied : 4 meters in straight length

Colour : Green



Pipe		Weight (Kg/m)
Dimension (mm)	Packing (unit)	
32	10	0.261
50	5	0.638
63	4	1.01
75	2	1.41
90	2	2.03
110	1	3.01

Elbow 90° (PN 25)

Pressure stage :PN 25

Form Supplied : Carton Box

Colour : Green



Elbow 90°		Weight (Grams)
Dimension (mm)	Packing (unit)	
20	150	15
25	120	25
32	60	40
50	20	135
63	10	265
75	15	320
90	8	413
110	4	489

► Product Range

Tee (PN 25)

Pressure stage :PN 25

Form Supplied : Carton Box

Colour : Green



Tee		Weight (Grams)
Dimension (mm)	Packing (unit)	
20	150	20
25	100	35
32	50	55
50	15	170
63	5	325
75	12	423
90	6	502
110	4	589

Socket (PN 25)

Pressure stage :PN 25

Form Supplied : Carton Box

Colour : Green



Sooket		Weight (Grams)
Dimension (mm)	Packing (unit)	
20	250	10
25	200	15
32	100	35
50	35	75
63	20	135
75	30	178
90	24	230
110	10	298

Product Range

Reducing Tee (PN 25)

Pressure stage :PN 25
Form Supplied : Carton Box
Colour : Green



Reducing Tee		Weight (Grams)
Dimension (mm)	Packing (unit)	
32 x 25 x 32	45	55
50 x 25 x 50	15	155
50 x 32 x 50	14	170
63 x 25 x 63	16	200
63 x 32 x 63	16	217

Reducer Socket (PN 25)

Pressure stage :PN 25
Form Supplied : Carton Box
Colour : Green



Reducer Socket		Weight (Grams)
Dimension (mm)	Packing (unit)	
25 x 20	400	149
32 x 25	300	155
50 x 32	150	50
63 x 50	25	56

Wall Mount Elbow 90° - Female

Pressure stage :PN 25
Form Supplied : Carton Box
Colour : Green



Wall Mount Elbow 90° - Female		Weight (Grams)
Dimension (mm)	Packing (unit)	
25 x 0.5"	90	67

► Product Range

Transition Piece Round - Male

Pressure stage : PN 25
 Form Supplied : Carton Box
 Colour : Green



Transition Piece Round - Male		Weight (Grams)
Dimension (mm)	Packing (unit)	
20 x 0.5"	100	58
25 x 0.5"	120	72.5
25 x 0.75"	120	102
32 x 0.75"	90	111.5
32 x 1"	50	166
50 x 1.5"	16	260
63 x 2"	16	310
90 x 3"	5	346
110 x 4"	3	788

Transition/PP-R Male Union

Pressure stage : PN 25
 Form Supplied : Carton Box
 Colour : Green



Transition/PP-R Male Union		Weight (Grams)
Dimension (mm)	Packing (unit)	
25 x 25	100	149.6
32 x 32	45	255

Transition Elbow 90° - Female

Pressure stage : PN 25
 Form Supplied : Carton Box
 Colour : Green



Transition Elbow 90° - Female		Weight (Grams)
Dimension (mm)	Packing (unit)	
20 x 0.5"	120	62
25 x 0.5"	90	67

Product Range

Transition Piece Round - Female

Pressure stage : PN 25
Form Supplied : Carton Box
Colour : Green



Transition Piece Round - Female		Weight (Grams)
Dimension (mm)	Packing (unit)	
20 x 0.5"	150	54
25 x 0.5"	150	64.9
25 x 0.75"	120	70
32 x 0.75"	90	79
32 x 1"	50	128
50 x 1.5"	15	261
63 x 2"	15	451
90 x 3"	5	530
110 x 4"	4	603

Transition/PP-R Female Union

Pressure stage : PN 25
Form Supplied : Carton Box
Colour : Green



Transition/PP-R Female Union		Weight (Grams)
Dimension (mm)	Packing (unit)	
25 x 25	100	122.1
32 x 32	45	190

Transition Tee - Female

Pressure stage : PN 25
Form Supplied : Carton Box
Colour : Green



Transition Tee - Female		Weight (Grams)
Dimension (mm)	Packing (unit)	
20 x 0.5"	90	65
25 x 0.5"	70	70

► Product Range

Bridge Bow

Pressure stage : PN 25
Form Supplied : Carton Box
Colour : Green



Bridge Bow		Weight (Grams)
Dimension (mm)	Packing (unit)	
20	500	30
25	300	45

Cap

Pressure stage : PN 25
Form Supplied : Carton Box
Colour : Green



Cap		Weight (Grams)
Dimension (mm)	Packing (unit)	
20 x 0.5"	100	17

Ball Cock

Pressure stage : PN 25
Form Supplied : Carton Box
Colour : Green



Ball Cook		Weight (Grams)
Dimension (mm)	Packing (unit)	
25	30	471
32	30	586.2
50	1	930

Product Range

Over Bridge Bow

Pressure stage : PN 25
Form Supplied : Carton Box
Colour : Green



Over Bridge Bow

Dimension (mm)	Packing (unit)
20	500
25	400

Weight (Grams)

77.4
49.7

End Cap

Pressure stage : PN 25
Form Supplied : Carton Box
Colour : Green



End Cap

Dimension (mm)	Packing (unit)
25	300
32	200

Weight (Grams)

15
20

Concealed Valve (Chrome Plated)

Pressure stage : PN 25
Form Supplied : Carton Box
Colour : Green



Concealed Valve (Chrome Plated)

Dimension (mm)	Packing (unit)
20	1
25	1

Weight (Grams)

300
314

► Product Range

Pipe SDR 6 (PN 20)

Pressure stage :PN 20

Form Supplied : 4 meters in straight length

Colour : Black



Pipe		Weight (Kg/m)
Dimension (mm)	Packing (unit)	
25	25	0.266
32	10	0.434
50	5	1.04
63	4	1.65

Socket (PN 25)

Pressure stage :PN 20

Form Supplied : 4 meters in straight length

Colour : Black



Socket		Weight (Grams)
Dimension (mm)	Packing (unit)	
25	200	15
32	100	35
50	35	75
63	20	135

Transition Piece Round - Female

Pressure stage :PN 25

Form Supplied : Carton Box

Colour : Black



Transition Piece Round - Female		Weight (Grams)
Dimension (mm)	Packing (unit)	
32 x 1"	50	128
50 x 1.5"	15	261
63 x 2"	15	451

Product Range

Elbow 90 ° (PN 25)

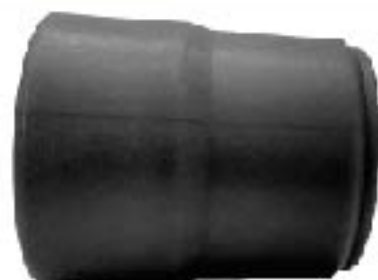
Pressure stage :PN 25
Form Supplied : Carton Box
Colour : Black



Elbow 90		Weight (Grams)
Dimension (mm)	Packing (unit)	
25	120	25
32	60	40
50	20	135
63	10	265

Reducer Socket (PN 25)

Pressure stage :PN 25
Form Supplied : Carton Box
Colour : Black



Reduoer Sooket		Weight (Grams)
Dimension (mm)	Packing (unit)	
32 x 25	300	155
50 x 32	150	50
63 x 50	25	56

Transition Piece Round - Male

Pressure stage :PN 25
Form Supplied : Carton Box
Colour : Black



Transition Pleoe Round - Male		Weight (Grams)
Dimension (mm)	Packing (unit)	
32 x 1"	50	166
50 x 1.5"	16	260
63 x 2"	16	310

► Product Range

Reducing Tee (PN 25)

Pressure stage :PN 25
Form Supplied : Carton Box
Colour : Black



Reducing Tee		Weight (Grams)
Dimension (mm)	Packing (unit)	
32 x 25 x 32	45	55
50 x 25 x 50	15	155
50 x 32 x 50	14	170
63 x 25 x 63	16	200
63 x 32 x 63	16	217

Tee (PN 25)

Pressure stage :PN 25
Form Supplied : Carton Box
Colour : Black



Tee		Weight (Grams)
Dimension (mm)	Packing (unit)	
25	100	35
32	50	55
50	15	170
63	5	325

► Our Places In Egypt

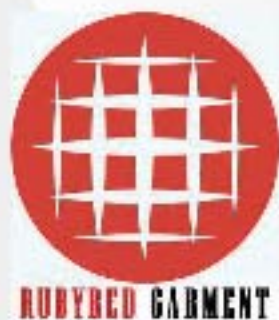


► Our clients succeed

Clients Succeed



IMPEX



ORASCOM
DEVELOPMENT



ORASCOM
HOTELS & DEVELOPMENT



إمبكس



بولي بروبيلين PPR | بي في سي PVC
غراء مواسير | نواكل نحاس

إمبكس إمبكس إمبكس إمبكس

المصنع : ٢٦ كيلو أبو رواش - طريق مصر اسكندرية الصحراوية ☎ ٠٢٣٥٣٩٢٣٩٨ - ٠٢٣٥٣٩٢٣٩٧
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