



شركة الادراك النقي للبلاستيك

Proudly a part of  
TAMIMI Group.



**PURE  
REALIZATION  
COMPANY**

**COMPANY PROFILE 2025**

OUR BRAND

 **PURE ALADRAK**



**A part of Tamimi Group.**

“

**WE AIM TO REDEFINE INDUSTRY STANDARDS.  
HERE EACH PROJECT EMBODIES INNOVATION,  
SUSTAINABILITY, AND ENDURING QUALITY.**



# TABLE OF CONTENTS

<b>Certifications</b>	<b>Page 4 - 5</b>
<b>About Us</b>	<b>Page 6</b>
<b>Our Mission &amp; Vision</b>	<b>Page 7</b>
<b>Manufacturing Standards</b>	<b>Page 8</b>
<b>Machinery &amp; Flow Chart</b>	<b>Page 9 - 10</b>
<b>CPVC &amp; UPVC Products</b>	<b>Page 11 - 28</b>
<b>Quality Control Equipments</b>	<b>Page 29</b>
<b>Quality</b>	<b>Page 30</b>
<b>Completed Projects</b>	<b>Page 31</b>
<b>HDPE Products</b>	<b>Page 32 - 37</b>



# CERTIFICATIONS



# CERTIFICATIONS



## شهادة ترخيص باستعمال علامة الجودة License For Use Of The Quality Mark

رقم الترخيص: 20250719221 License Number:

SASO certifies that it has granted the right to use (SASO) quality mark on the following products, after fulfilling the required requirements according to the related normative references:   
 تُشود الهيئة السعودية للمواصفات والمقاييس والجودة بأنها رخصت باستخدام علامة الجودة على المنتجات الموضحة أدناه بعد استيفائها للتحليلات اللازمة وفق المراجع القياسية الخاصة بها.

The Establishment:	شركة الادراك النقي للبلاستيك شركة شخص واحد	المتشأة:
The Establishment's Address:	P.O.BOX 4524, JUBAIL - ABU HADRIYA ROAD 120-8136 FIRST INDUSTRIAL CITY - JUBAIL	عنوان المنشأة:
Production Line Location:	P.O.BOX 4524, JUBAIL - ABU HADRIYA ROAD 120-8136 FIRST INDUSTRIAL CITY - JUBAIL	موقع خط الإنتاج:
Normative References:	SASO-ASTM-D2466/2021	المراجع القياسية:
The Trade Mark:	PURE ALADRAK	العلامة التجارية:
The Product:	وصلات الأنابيب البلاستيكية المصنعة من عديد (كلوريد الفينيل)	المنتج: المفصل المقدم في أسفلها
Date of Granting:	2025/05/19	تاريخ المنح:
Date of Renewal:	-	تاريخ التجديد:
Date of Expiry:	2028/05/19	تاريخ الانتهاء:



محبر عام الإدارة العامة لمنح الشهادات  
Director General of Certification Department

المهندس/ خالد بن محمد النملة  
Eng. Khalid M. Alnamlah



للتأكد من صحة هذه الشهادة يرجى زيارة موقعنا على الإنترنت وأي تحديث أو تغيير في هذه الشهادة بلغهنا.  
To verify this certification visit SASO website, and any changes or modification on this certificate will affect its validity.

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1 / 2



## شهادة ترخيص باستعمال علامة الجودة License For Use Of The Quality Mark

رقم الترخيص: 20250719221 License Number:

SASO certifies that it has granted the right to use (SASO) quality mark on the following products, after fulfilling the required requirements according to the related normative references:   
 تُشود الهيئة السعودية للمواصفات والمقاييس والجودة بأنها رخصت باستخدام علامة الجودة على المنتجات الموضحة أدناه بعد استيفائها للتحليلات اللازمة وفق المراجع القياسية الخاصة بها.

The Establishment:	شركة الادراك النقي للبلاستيك شركة شخص واحد	المتشأة:
The Establishment's Address:	P.O.BOX 4524, JUBAIL - ABU HADRIYA ROAD 120-8136 FIRST INDUSTRIAL CITY - JUBAIL	عنوان المنشأة:
Production Line Location:	P.O.BOX 4524, JUBAIL - ABU HADRIYA ROAD 120-8136 FIRST INDUSTRIAL CITY - JUBAIL	موقع خط الإنتاج:
Normative References:	SASO-ASTM-D1785/2021	المراجع القياسية:
The Trade Mark:	PURE ALADRAK	العلامة التجارية:
The Product:	أنابيب عديد كلوريد الفينيل (PVC)	المنتج: المفصل المقدم في أسفلها
Date of Granting:	2025/05/19	تاريخ المنح:
Date of Renewal:	-	تاريخ التجديد:
Date of Expiry:	2028/05/19	تاريخ الانتهاء:



محبر عام الإدارة العامة لمنح الشهادات  
Director General of Certification Department

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## ABOUT US

Pure Realization Company fosters innovation while establishing cutting-edge standards in the piping industry. The company manufactures plastic pipes and fittings that meet international standards for pressure and non-pressure applications.

Pure Realization Company is a sister concern manufacturing facility of Tamimi Global. Pure Realization Company has leading-edge technology, modern infrastructure, and a highly skilled team. Our organization has established innovative machinery to enable maximum flexibility in the manufacturing process while fulfilling tight time constraints for delivery.

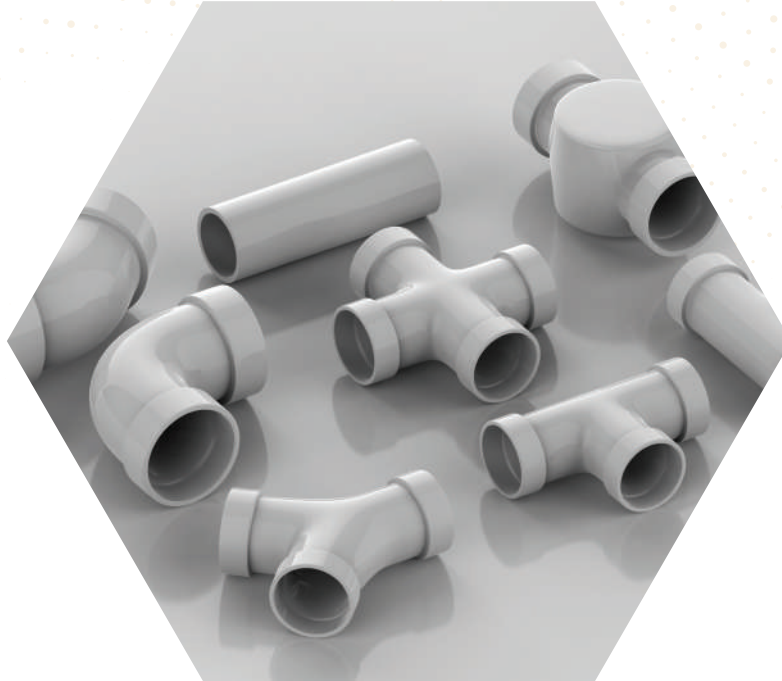
# **OUR** **MISSION**

Pure Realization Company fosters innovation while establishing cutting-edge standards in the piping industry. The company manufactures plastic pipes and fittings that meet international standards for pressure and non-pressure applications.

# **OUR** **VISION**

Our vision is to upgrade the plastic piping industry by implementing innovative solutions to generate profitable development and benefit our customers and society.

# MANUFACTURING STANDARDS

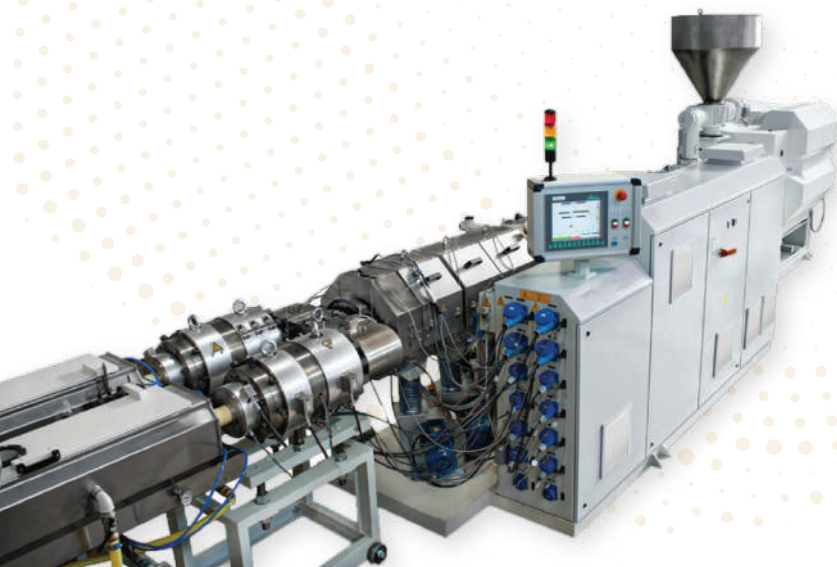


Pure Realization Comapny adheres to ASTM standards and ISO (International Organisation for Standardisation), which are based on German norms and are intended to suit the needs of Residential, Commercial, and Industrial Plumbing Systems, as well as other pressure applications.

- 01** Adhere to ASTM D 1785/ 1784 industry requirements and our quality control standards.
- 02** The Pipe manufacturing is done from high-quality raw materials and the latest PVC processing technology.
- 03** Pure Realization pipes are marked automatically during the process of production. Each pipe is marked according to its relevance standard classification.

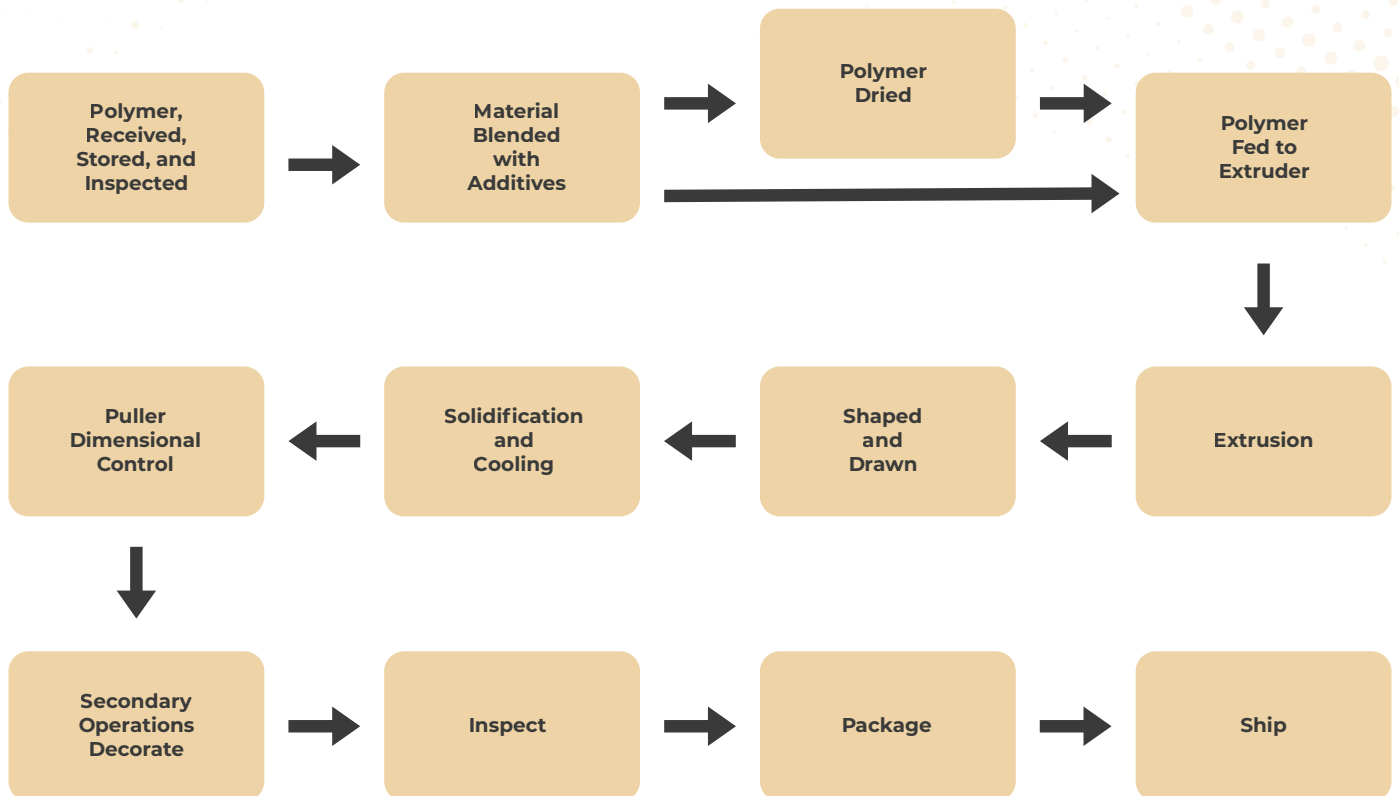
# MACHINERY

Pure Realization Company is a fully equipped production facility as well as on-site testing. Our production facility is outfitted with various advanced technology machinery and tools, including a Plastic Extrusion Unit, an Injection Moulding Unit, and Quality Testing Equipment per industry standards. Furthermore, our considerable storage capacity allows us to complete huge bulk orders within a certain time range.



## EXTRUSION MACHINES

# PVC EXTRUSION FLOW CHART



# PRODUCTS

UPVC PIPES SCH 40 & SCH 80



# UPVC PIPES ACCORDING TO ASTM D 1785, SCH 40 & SCH 80

Nominal Size Inch.	O.O. (mm)		Schedule 40				Schedule 80			
	Min	Max	Wall Thickness (mm)		Nominal Weight (kg/M)	PSI	Wall Thickness (mm)		Nominal Weight	PSI
			Min	Max			Min	Max		
1/2	21.24	21.44	2.77	3.28	0.24	600	3.73	4.24	0.3	850
3/4	26.57	26.77	2.87	3.38	0.33	480	3.91	4.42	0.43	690
1	33.27	33.53	3.38	3.89	0.48	450	4.55	5.08	0.61	630
1 1/4	42.03	42.29	3.56	4.07	0.65	370	4.85	5.44	0.87	520
1 1/2	48.11	48.41	3.68	4.19	0.77	330	5.08	5.69	1.03	470
2	60.17	60.47	3.91	4.42	1.04	280	5.54	6.2	1.43	400
2 1/2	72.84	73.2	5.16	5.77	1.57	300	7.01	7.85	2.2	420
3	88.7	89.1	5.49	6.15	2.14	260	7.62	8.53	2.91	370
4	114.1	114.5	6.02	6.73	3.05	220	8.56	9.58	4.26	320
5	141.05	141.55	6.22	7.347	4.18	190	9.52	10.67	6.42	290
6	168	168	7.11	7.98	5.37	180	10.97	12.29	8.13	280
8	218.7	218.7	8.18	9.17	8.11	160	12.7	14.22	10.1	250

# UPVC PRESSURE-RATED PIPES ACCORDING TO ASTM D 2241

Nominal Size Inch.	O.O. (mm)		Wall Thickness (mm)											
	Min	Max	Standard Diameter Ratio (SDR)											
			41 W.P.:6.9 Bar		32.5 W.P.:8.6 Bar		26 W.P.:11 Bar		21 W.P.:13.8 Bar		17 W.P.:17.2 Bar		13.5 W.P.:21.7 Bar	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1/2	21.24	21.44											1.57	2.08
3/4	26.57	26.77							1.52	2.03	1.57	2.08	1.98	2.49
1	33.27	33.53					1.52	2.03	1.60	2.11	1.96	2.46	2.46	2.97
1 1/4	42.03	42.29			1.52	2.03	1.63	2.13	2.01	2.52	2.49	3.00	3.12	3.63
1 1/2	48.11	48.41			1.52	2.03	1.85	2.36	2.29	2.80	2.84	3.35	3.58	4.09
2	60.17	60.47			1.85	2.36	2.31	2.82	2.87	3.38	3.56	4.06	4.47	4.98
3	88.70	98.10	2.16	2.67	2.74	3.25	3.43	3.94	4.24	4.75	5.23	5.87	6.58	7.37
4	114.07	114.53	2.80	3.30	3.51	4.01	4.39	4.90	5.44	6.10	6.73	7.54	8.46	9.47
6	168.00	168.56	4.11	4.62	5.18	5.79	6.48	7.26	8.03	9.00	9.91	11.10	12.47	13.97
8	218.70	219.46	5.33	5.97	6.73	7.54	8.43	9.45	10.41	11.66	12.90	11.45		

# PRODUCTS

## CPVC PIPES SCH 80



# CPVC PIPES

## ASTM F 441/F441-M20

### SCH 80

Nominal Pipe Size		Outside Diameter		Wall Thickness		Approx. Inside Diameter	Nominal Weight CPVC	Max Operating Pressure
inch	mm	mm		mm		mm	kg/m	MPa
1/2"	15	21.34	+0.10	3.73	+0.51	13.4	0.34	5.86
3/4"	20	26.67	+0.10	3.91	+0.51	18.3	0.46	4.76
1"	25	33.40	+0.13	4.55	+0.53	23.8	0.67	4.34
1-1/4"	32	42.16	+0.13	4.85	+0.58	31.9	0.93	3.59
1-1/2"	40	48.26	+0.15	5.08	+0.61	37.5	1.12	3.24
2"	50	60.32	+0.15	5.54	+0.66	48.6	1.56	2.76

# PRODUCTS

## CPVC FITTINGS SCH 80

### TECHNICAL DATA SHEET

PURE REALIZATION CPVC SCH 80 Fittings are produced from WF-201 Grade Raw material meeting the ASTM D 2466

#### MATERIAL PROPERTIES OF CPVC FITTINGS

Property	Test Method	Unit	Specifications	Test Value
Appearance	Visual	---	---	White
Specific Gravity 9 (at 27°C)	ASTM D 792	---	1.54 + 0.03	1.55
Hardness	ASTM D 2240	Shore D	80 + 3.00	81
Tensile Strength	ASTM D 638	MPA	20 (Minimum)	28.00
Thermal Stability @ 200°C	IS 5831	Minutes	20 (Minimum)	25
Heat Deflection Temperature	ASTM D 648	*C	70 (Minimum)	72.00
VIVAT Softening Temperature (VST)	ASTM D 1525	*C	72 (Minimum)	75

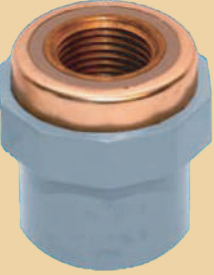
#### PHYSICAL & CHEMICAL PROPERTIES OF RAW MATERIAL

Description	Details
Appearance	Pellets
Odor	Odourless to Mild
Boiling Point, Melting Point, Freezing Point	Not Applicable
Specific Gravity (Water + 1.0)	1.35 - 1.55
Vapor Pressure (mm of Mercury)	< 0.1
PH	Not Applicable - Solid

# CPVC SCH 80

## PRODUCT NAME : CPVC ADAPTOR WITH BRASS

Size	Product Code	Diameter		Height
		Top	Bottom	
3/4" x 1/2"	40172601 - FG01	61.00	54.00	103.00
1" x 3/4"	40172601 - FG02	66.00	61.00	110.00
1" x 1/2"	40172601 - FG03	66.00	54.00	108.00



## PRODUCT NAME : CPVC TEE JOINT WITH BRASS

Size	Product Code	Diameter		Height
		Top	Bottom	
3/4"	40174609 - FG01	60.70	60.70	101.20



## PRODUCT NAME : CPVC ELBOW WITH BRASS

Size	Product Code	Diameter	Height
3/4" x 1/2"	40172801 - FG01	61.00	81.40
1" x 3/4"	40172801 - FG02	71.00	87.00
1" x 1/2"	40172801 - FG03	71.00	87.00



# CPVC SCH 80

## PRODUCT NAME : CPVC ELBOW 45\* - SCH 80



Size	Product Code	ID	OD	WT	SL	L	H
3/4"	40172809 - FG10	26.97	34.79	3.91	25.4	58	68
1"	40172809 - FG11	33.78	42.88	4.55	28.58	60	74
1-1/4"	40172809 - FG12	42.55	52.25	4.85	31.75	77	85
1-1/2"	40172809 - FG13	48.72	58.88	5.08	34.93	83	88
2"	40172809 - FG14	60.78	71.86	5.54	38.1	98	115
2-1/2"	40172809 - FG15	73.56	87.58	7.01	44.45	130	168

## PRODUCT NAME : CPVC ELBOW 90\* - SCH 80



Size	Product Code	ID	OD	WT	SL	H
3/4"	40172809 - FG02	26.97	34.79	3.91	25.4	58
1"	40172809 - FG03	33.78	42.88	4.55	28.58	66
1-1/4"	40172809 - FG04	42.55	52.25	4.85	31.75	80
1-1/2"	40172809 - FG05	48.72	58.88	5.08	34.93	90
2"	40172809 - FG06	60.78	71.86	5.54	38.1	115
2-1/2"	40172809 - FG07	73.56	87.58	7.01	44.45	132


## PRODUCT NAME : CPVC COUPLING - SCH 80



Size	Product Code	ID	OD	WT	SL	L
3/4"	40172609 - FG02	26.97	34.79	3.91	25.4	54
1"	40172609 - FG03	33.78	42.88	4.55	28.58	60
1-1/4"	40172609 - FG04	42.55	52.25	4.85	31.75	67
1-1/2"	40172609 - FG05	48.72	58.88	5.08	34.93	73
2"	40172609 - FG06	60.78	71.86	5.54	38.1	80
2-1/2"	40172609 - FG07	73.56	87.58	7.01	44.45	96

# CPVC SCH 80

## PRODUCT NAME : CPVC TEE 90D - SCH 80

	Size	Product Code	ID	OD	WT	SL	L	H
	3/4"	40174609 - FG02	26.97	34.79	3.91	25.4	57	79
	1"	40174609 - FG03	33.78	42.88	4.55	28.58	67	93
	1-1/4"	40174609 - FG04	42.55	52.25	4.85	31.75	80	108
	1-1/2"	40174609 - FG05	48.72	58.88	5.08	34.93	94	121
	2"	40174609 - FG06	60.78	71.86	5.54	38.1	107	138
	2-1/2"	40174609 - FG07	73.56	87.58	7.01	44.45	130	174

## PRODUCT NAME : CPVC END CAP - SCH 80

	Size	Product Code	ID	WT	H
	3/4"	40172408 - FG04	26.97	3.91	36
	1"	40172408 - FG05	33.78	4.55	36
	1-1/4"	40172408 - FG06	42.55	4.85	42
	1-1/2"	40172408 - FG07	48.72	5.08	45
	2"	40172408 - FG08	60.78	5.54	54
	2-1/2"	40172408 - FG09	73.56	7.01	60

# CPVC SCH 80

PRODUCT NAME : UPVC REDUCER BUSHING SCH 80



Size	Product Code	ID-1	ID -2	SL	L	H
1"X3/4"	40173609 - FG01	33.78	26.97	25.4	43	32
1"X1/2"	40173609 - FG02	33.78	21.64	22.23	43	32
1-1/4"1"X1"	40173609 - FG03	42.55	33.78	28.58	53	35
1-1/4"1"X3/4"	40173609 - FG04	42.55	26.97	25.4	53	35
1-1/2"X3/4"	40173609 - FG05	48.72	26.97	25.4	58	37
1-1/2"X1"	40173609 - FG06	48.72	33.78	28.58	58	37
1-1/2"X1-1/4"	40173609 - FG07	48.72	42.55	31.75	58	37
2"X1-1/4"	40173609 - FG08	60.78	42.55	31.75	72	43
2"X1"	40173609 - FG09	60.78	33.78	28.58	72	43
2"X1-1/2"	40173609 - FG10	60.78	48.72	34.93	72	43
2"X3/4"	40173609 - FG11	60.78	26.97	25.4	72	43
2-1/2"X2"	40173609 - FG12	73.56	60.78	38.1	80	56
2-1/2"X1-1/2"	40173609 - FG13	73.56	48.72	44.2	80	56
2-1/2"X1-1/4"	40173609 - FG14	73.56	42.55	42.65	80	56
2-1/2"X1"	40173609 - FG15	73.56	33.78	41.20	80	56

# PRODUCTS

## UPVC FITTINGS SCH 80 & SCH 40

### TECHNICAL DATA SHEET

PURE REALIZATION SCH 40 & 80 FITTINGS ARE PRODUCED FROM  
EPEX - 001 GRADE RAW MATERIAL MEETING THE ASTM D  
2466

#### MATERIAL PROPERTIES OF UPVC FITTINGS

Property	Test Method	Unit	Specifications	Test Value
Appearance	Visual	---	---	White
Specific Gravity 9 (at 27°C)	ASTM D 792	---	1.54 + 0.03	1.55
Hardness	ASTM D 2240	Shore D	80 + 3.00	81
Tensile Strength	ASTM D 638	MPA	20 (Minimum)	28.00
Thermal Stability @ 200°C	IS 5831	Minutes	20 (Minimum)	25
Heat Deflection Temperature	ASTM D 648	*C	70 (Minimum)	72.00
VIVAT Softening Temperature (VST)	ASTM D 1525	*C	72 (Minimum)	75

#### PHYSICAL & CHEMICAL PROPERTIES OF RAW MATERIAL

Description	Details
Appearance	Pellets
Odor	Odourless to Mild
Boiling Point, Melting Point, Freezing Point	Not Applicable
Specific Gravity (Water + 1.0)	1.35 - 1.55
Vapor Pressure (mm of Mercury)	< 0.1
PH	Not Applicable - Solid

#### WATER PRESSURE RATING FOR PVC SCH 40 FITTINGS AT 72°F AS SHOWN BELOW

Standard	Pipe Size	Pressure Rating
ASTM D 2466	2"	280 psi
ASTM D 2466	3"	260 psi
ASTM D 2466	4"	220 psi

# UPVC FITTINGS SCH 80

## PRODUCT NAME : UPVC ELBOW 45\* - SCH 80



Size	Product Code	ID	OD	WT	SL	L	H
1/2"	40172808 - FG027	23.40	33.45	3.71	23.40	50	62
3/4"	40172808 - FG028	26.97	34.79	3.91	25.4	58	68
1"	40172808 - FG029	33.78	42.88	4.55	28.58	60	74
1-1/4"	40172808 - FG030	42.55	52.25	4.85	31.75	77	85
1-1/2"	40172808 - FG031	48.72	58.88	5.08	34.93	83	88
2"	40172808 - FG032	60.78	71.86	5.54	38.1	98	115
2-1/2"	40172808 - FG035	73.56	87.58	7.01	44.45	130	168

## PRODUCT NAME : UPVC ELBOW 90\* - SCH 80



Size	Product Code	ID	OD	WT	SL	H
1/2"	40172808 - FG019	23.40	33.45	3.71	23.40	50
3/4"	40172808 - FG020	26.97	34.79	3.91	25.4	58
1"	40172808 - FG021	33.78	42.88	4.55	28.58	66
1-1/4"	40172808 - FG022	42.55	52.25	4.85	31.75	80
1-1/2"	40172808 - FG023	48.72	58.88	5.08	34.93	90
2"	40172808 - FG024	60.78	71.86	5.54	38.1	115
2-1/2"	40172808 - FG036	73.56	87.58	7.01	44.45	132

## PRODUCT NAME : UPVC COUPLING - SCH 80



Size	Product Code	ID	OD	WT	SL	L
1/2"	40172608 - FG08	23.40	33.45	3.71	23.3	50
3/4"	40172608 - FG09	26.97	34.79	3.91	25.4	54
1"	40172608 - FG10	33.78	42.88	4.55	28.58	60
1-1/4"	40172608 - FG11	42.55	52.25	4.85	31.75	67
1-1/2"	40172608 - FG12	48.72	58.88	5.08	34.93	73
2"	40172608 - FG13	60.78	71.86	5.54	38.1	80
2-1/2"	40172608 - FG15	73.56	87.58	7.01	44.45	96

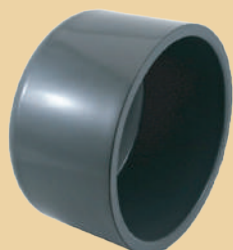
# UPVC FITTINGS SCH 80

## PRODUCT NAME : UPVC TEE 90D - SCH 80



Size	Product Code	ID	OD	WT	SL	L	H
1/2"	40174608 - FG11	23.40	33.45	3.71	23.40	50	62
3/4"	40174608 - FG12	26.97	34.79	3.91	25.4	57	79
1"	40174608 - FG13	33.78	42.88	4.55	28.58	67	93
1-1/4"	40174608 - FG14	42.55	52.25	4.85	31.75	80	108
1-1/2"	40174608 - FG15	48.72	58.88	5.08	34.93	94	121
2"	40174608 - FG16	60.78	71.86	5.54	38.1	107	138
2-1/2"	40174608 - FG19	73.56	87.58	7.01	44.45	130	174

## PRODUCT NAME : UPVC END CAP - SCH 80



Size	Product Code	ID	WT	H
1/2"	40172408 - FG06	20.16	3.71	32
3/4"	40172408 - FG07	26.97	3.91	36
1"	40172408 - FG08	33.78	4.55	36
1-1/4"	40172408 - FG09	42.55	4.85	42
1-1/2"	40172408 - FG10	48.72	5.08	45
2"	40172408 - FG11	60.78	5.54	54
2-1/2"	40172408 - FG12	73.56	7.01	60

# UPVC FITTINGS SCH 80


PRODUCT NAME : UPVC REDUCER BUSHING SCH 80



Size	Product Code	ID-1	ID -2	SL	L	H
1/2" x 3/4"	40173608 - FG03	26.97	23.40	23.4	43	32
1"X3/4"	40173608 - FG05	33.78	26.97	25.4	43	32
1"X1/2"	40173608 - FG04	33.78	21.64	22.23	43	32
1-1/4"1"X1"	40173608 - FG07	42.55	33.78	28.58	53	35
1-1/4"1"X3/4	40173608 - FG06	42.55	26.97	25.4	53	35
1-1/2"X3/4"	40173608 - FG08	48.72	26.97	25.4	58	37
1-1/2"X1"	40173608 - FG09	48.72	33.78	28.58	58	37
1-1/2"X1-1/4"	40173608 - FG10	48.72	42.55	31.75	58	37
2"X1-1/4"	40173608 - FG13	60.78	42.55	31.75	72	43
2"X1"	40173608 - FG12	60.78	33.78	28.58	72	43
2"X1-1/2"	40173608 - FG14	60.78	48.72	34.93	72	43
2"X3/4"	40173608 - FG11	60.78	26.97	25.4	72	43
2-1/2"X2"	40173608 - FG18	73.56	60.78	38.1	80	56
2-1/2"X1-1/2"	40173608 - FG19	73.56	48.72	44.2	80	56
2-1/2"X1-1/4"	40173608 - FG20	73.56	42.55	42.65	80	56
2-1/2"X1"	40173608 - FG21	73.56	33.78	41.20	80	56


# UPVC FITTINGS SCH 40

## PRODUCT NAME : UPVC ELBOW 90D - SCH 40



Size	Product Code	C	C1	M
1/2"	40172808 - FG01	35.55	21.45	30.20
3/4"	40172808 - FG02	40.45	24.95	33.30
1"	40172808 - FG03	45.11	27.65	40.70
1-1/4"	40172808 - FG04	55.26	31.05	49.90
1-1/2"	40172808 - FG05	60.00	33.40	56.20
2"	40172808 - FG06	66.49	33.95	68.65
2-1/2"	40172808 - FG19	72.49	37.55	75.70
3"	40172808 - FG07	95.20	47.60	120.8
4"	40172808 - FG08	114.30	55.00	184.40
6"	40172808 - FG18	168.30	77.00	258.15

## PRODUCT NAME : UPVC ELBOW 45D - SCH 40



Size	Product Code	C	C1	M
1/2"	40172808 - FG09	35.55	21.45	30.20
3/4"	40172808 - FG10	40.45	24.95	33.30
1"	40172808 - FG11	45.11	27.65	40.70
1-1/4"	40172808 - FG12	55.26	31.05	49.90
1-1/2"	40172808 - FG13	60.00	33.40	56.20
2"	40172808 - FG14	66.49	33.95	68.65
2-1/2"	40172808 - FG15	72.49	37.55	75.70
3"	40172808 - FG16	95.20	47.60	120.8
4"	40172808 - FG17	109.44	51.50	127.40
6"	40172808 - FG19	168.30	77.00	320.15

# UPVC FITTINGS SCH 40

## PRODUCT NAME : UPVC TEE 90D - SCH 40



Size	Product Code	C	C1	M
1/2"	40174608 - FG01	33.55	22.55	29.20
3/4"	40174608 - FG02	40.05	25.80	32.90
1"	40174608 - FG03	44.30	28.10	41.30
1-1/4"	40174608 - FG04	54.50	31.40	49.90
1-1/2"	40174608 - FG05	60.15	33.90	56.20
2"	40174608 - FG06	67.35	34.45	68.60
2-1/2"	40174608 - FG08	73.45	38.65	75.85

## PRODUCT NAME : UPVC COUPLING - SCH 40



Size	Product Code	C	C1	M
1/2"	40172608 - FG01	55.5	17.65	29.20
3/4"	40172608 - FG02	62.20	19.84	34.95
1"	40172608 - FG03	67.50	25.90	41.27
1-1/4"	40172608 - FG04	74.35	26.98	50.80
1-1/2"	40172608 - FG05	82.40	30.16	57.15
2"	40172608 - FG06	94.00	38.70	69.04
2-1/2"	40172608 - FG07	102.00	44.30	75.35
3"	40172608 - FG08	106.00	48.50	82.80
4"	40172608 - FG09	110.00	52.65	91.65
6"	40172608 - FG10	168.30	77.00	160.20

# UPVC FITTINGS SCH 40


## PRODUCT NAME : PVC END CAP - SCH 40

	Size	Product Code	M	W
	3/4"	40172408 - FG06	62.20	19.84
	1"	40172408 - FG07	67.50	25.90
	1-1/4"	40172408 - FG08	74.35	26.98
	1-1/2"	40172408 - FG09	82.40	30.16
	2"	40172408 - FG10	94.00	38.70
	2-1/2"	40172408 - FG11	102.00	44.30
	6"	40172408 - FG12	168.30	77.00


## PRODUCT NAME : PVC SANITARY TEE - SCH 40

	Size	Product Code	Diameter		Height
			Top	Bottom	
	2" X 2" X 2"	40174608 - FG16	60.70	60.70	133.70
	3" X 3" X 2"	40174608 - FG17	89.90	89.90	160.60
	3" X 3" X 2"	40174608 - FG18	115.50	115.50	189.50
4" X 4" X 2"	40174608 - FG19	115.50	115.50	189.50	

## PRODUCT NAME : VENT CAP (COWL) - SCH 40


	Size	Product Code	Diameter	Height
	2"	47131801 - FG03	61.00	74.85
	3"	47131801 - FG04	89.90	81.85

## PRODUCT NAME : ELBOW 90\* WITH DOOR

	Size	Product Code	Diameter		Height
			Top	Bottom	
4"	40172808 - FG18	116.00	116.00	176.40	

# UPVC FITTINGS SCH 40

## PRODUCT NAME : SANITARY Y 45\* - SCH 40

	Size	Product Code	Diameter		Height
			C	C1	
	3" X 3" X3"	40174608 - FG11	165.5	69.01	111.31
	4" X 4" X 4"	40174608 - FG12	292.9	126.80	204.15
	4" X 4" X 3"	40174608 - FG13	292.8	69.01	101.65
	4" X 4" X 2"	40174608 - FG14	292.8	48.01	94.65
	3" X 3" X2"	40174608 - FG15	165.5	48.01	94.65
	6" X 6" X4"	40174608 - FG16	322.6	126.80	220.30


## PRODUCT NAME : U TRAP WITH LONG ELBOW - SCH 40

	Size	Product Code	Diameter		Height
			Top	Bottom	
	3" U Trap	40142513 - FG02	5.8	45.8	127.05
	4" U Trap	40142513 - FG01	62.50	54.7	135.10

## PRODUCT NAME : MULTI FLOOR TRAP - SCH 40

	Size	Product Code	Diameter		M
			C	C1	
	4" Trap	40142513 - FG03	121.35	120.4	52.55

## PRODUCT NAME : CLEANOUT - SCH 40

	Size	Product Code	Diameter		M
			C	C1	
	4" Cleanout	47131801 - FG01	125.85	88.90	71.65

# QUALITY CONTROL EQUIPMENTS



## Tensile Strength

Measures the strength of material (Resistance) being pulled apart.

## Elongation at Break

Measures the extension length of the sample until it breaks.

## Modulus of Elasticity

Measures the stiffness of the material.

## Longitudinal Reversion or Effects of Heating

Measures the change in length of the sample after exposure to high temperature & the ability to resist heat without showing delamination, cracks or blisters.



## Density / Specific Gravity

Determines the specific gravity and density to help in material identification.

## Vicat Softening Temperature

Determines the softening temperature of material when penetrated by a flattened needle to 1.0mm depth under a specific load.



## Hydrostatic Strength

Determines the capability of the sample to withstand internal pressure for both long and short periods of time.

## Impact Strength

Measures the toughness of the sample against impact or the ability of the sample to absorb applied energy.



# QUALITY



Pure Realization Company's UPVC Pipe & Fittings are made of high- impact, unplasticized polyvinyl chloride compounds that can withstand harsh on-site factors. Our product quality follows the most strict processes of international standards.

UPVC Pressure Pipes and fittings are the unsurpassed choice for potable water distribution where simplicity of installation, maintenance, and zero leaks are paramount.

## PROMINENT FEATURES

- 01** Various diameters & grade to suit different applications & conditions.
- 02** Time Tested & High Longevity.
- 03** Heat-efficient & Chemical Resistant.
- 04** Environment Friendly.
- 05** Cost-effective & Low Maintenance cost.

# PROFESSIONAL WORK FLOW

We are a team of dynamic professionals who are dedicated and possess extensive market knowledge.

## COMPLETED PROJECTS

**01**

**NATIONAL HOUSING COMPANY**

Construction of 200 Family Villas Projects,  
Al Ahsa, Eastern Province, KSA. 2019-2021

**02**

**TEKFEN CONSTRUCTIONS COMPANY TCF  
WORKERS - ACCOMMODATION FACILITIES  
HARADH 2019 - 2020**

**03**

**LIMAK CONSTRUCTIONS COMPANY TCF  
WORKERS ACCOMODATION  
FACILITIES - JUBAIL 2019 - 2020**

# PRODUCTS

## HDPE PIPES



# MATERIAL PROPERTIES OF HDPE

Property	Test Method	Units	PE 100
Density (Compound)	ISO 1183	KG/M <sup>3</sup>	959
Melt Flow Rate (190C/5kg)	ISO 1133	G/10 min	0.25
Tensile Stress at Yeild (50mm/min)	ISO 527-2	MPa	25
Elongation at break	ISO 527-2	%	>600
Charpy impact Strenght, Notched	ISO 179/1EA	kJ/m <sup>2</sup>	16
Carbon Black Content	ASTM D 1603	%	2
Vicat Softening Point	ASTM D 1525	°C	122
Brittleness Temperature	ASTM D 746	°C	<-70
ESCR (10% Igepal), F50	ASTM D 1693A	Hrs	>10,000
Thermal Conductivity	DIN 52612	W/m <sup>°k</sup>	0.4

# TECHNICAL DATA SHEET

## IS: 4984 - 2016 High Density Polyethylene Pipes for Water Supply - Specifications

### Material Grade PE-100

Product Code	Size mm	PN 16 (SDR 11)		Product Code	Size mm	PN 10 (SDR 17)	
		min	max			min	max
40171520-FG01	20	1.9	2.2	40171520-FG21	20	-	-
40171520-FG02	25	2.3	2.6	40171520-FG22	25	-	-
40171520-FG03	32	2.9	3.3	40171520-FG23	32	1.9	2.2
40171520-FG04	40	3.7	4.2	40171520-FG24	40	2.4	2.7
40171520-FG05	50	4.6	5.2	40171520-FG25	50	3.0	3.4
40171520-FG06	63	5.8	6.5	40171520-FG26	63	3.7	4.2
40171520-FG07	75	6.9	7.7	40171520-FG27	75	4.5	5.1
40171520-FG08	90	8.2	9.1	40171520-FG28	90	5.3	5.9
40171520-FG09	110	10.0	11.1	40171520-FG29	110	6.5	7.3
40171520-FG10	125	11.4	12.7	40171520-FG30	125	7.4	8.2
40171520-FG11	140	12.8	14.2	40171520-FG31	140	8.3	9.2
40171520-FG12	160	14.6	16.2	40171520-FG32	160	9.5	10.6
40171520-FG13	180	16.4	18.1	40171520-FG33	180	10.6	11.8
40171520-FG14	200	18.2	20.1	40171520-FG34	200	11.8	13.1
40171520-FG15	225	20.5	22.7				
40171520-FG16	250	22.8	25.2				
40171520-FG17	280	25.5	28.2				
40171520-FG18	315	28.7	31.7				
40171520-FG19	355	32.3	35.6				
40171520-FG20	400	36.4	40.1				

# PRODUCTS

## HDPE FITTINGS



# MATERIAL PROPERTIES OF HDPE

Property	Test Method	Units	PE 100
Density (Compound)	ISO 1183	KG/M <sup>3</sup>	959
Melt Flow Rate (190C/5kg)	ISO 1133	G/10 min	0.25
Tensile Stress at Yeild (50mm/min)	ISO 527-2	MPa	25
Elongation at break	ISO 527-2	%	>600
Charpy impact Strenght, Notched	ISO 179/1EA	kJ/m <sup>2</sup>	16
Carbon Black Content	ASTM D 1603	%	2
Vicat Softening Point	ASTM D 1525	°C	122
Brittleness Temperature	ASTM D 746	°C	<-70
ESCR (10% Igepal), F50	ASTM D 1693A	Hrs	>10,000
Thermal Conductivity	DIN 52612	W/m <sup>2</sup> k	0.4

# TECHNICAL DATA SHEET

## IS: 4984 - 2016 High Density Polyethylene Fittings for Water Supply - Specifications

### Material Grade PE-100

#### ELBOW 90° PN16 SDR11 INJ

Product Code	Description
40171520-FG40	HDPE ELBOW 90° PN16 SDR11 INJ, OD 63MM
40171520-FG41	HDPE ELBOW 90° PN16 SDR11 INJ, OD 75MM
40171520-FG42	HDPE ELBOW 90° PN16 SDR11 INJ, OD 90MM
40171520-FG43	HDPE ELBOW 90° PN16 SDR11 INJ, OD 110MM
40171520-FG44	HDPE ELBOW 90° PN16 SDR11 INJ, OD 160MM
40171520-FG45	HDPE ELBOW 90° PN16 SDR11 INJ, OD 200MM
40171520-FG46	HDPE ELBOW 90° PN16 SDR11 INJ, OD 225MM
40171520-FG47	HDPE ELBOW 90° PN16 SDR11 INJ, OD 250MM
40171520-FG48	HDPE ELBOW 90° PN16 SDR11 INJ, OD 315MM

#### ELBOW 90° PN16-PN10.

Product Code	Description
40171520-FG49	HDPE ELBOW 90° PN16-PN10, OD40MM
40171520-FG50	HDPE ELBOW 90° PN16-PN10, OD 50MM
40171520-FG51	HDPE ELBOW 90° PN16-PN10, OD 63MM
40171520-FG52	HDPE ELBOW 90° PN16-PN10, OD 75MM
40171520-FG53	HDPE ELBOW 90° PN16-PN10, OD 90MM
40171520-FG54	HDPE ELBOW 90° PN16-PN10, OD 110MM
40171520-FG55	HDPE ELBOW 90° PN16 SDR11, OD 160MM

**ELBOW 45° PN16 SDR11 INJ**

<b>Product Code</b>	<b>Description</b>
40171520-FG56	HDPE ELBOW 45° PN16 SDR11 INJ, OD 63MM
40171520-FG57	HDPE ELBOW 45° PN16 SDR11 INJ, OD 75MM
40171520-FG58	HDPE ELBOW 45° PN16 SDR11 INJ, OD 45MM
40171520-FG59	HDPE ELBOW 45° PN16 SDR11 INJ, OD 110MM
40171520-FG60	HDPE ELBOW 45° PN16 SDR11 INJ, OD 160MM
40171520-FG61	HDPE ELBOW 45° PN16 SDR11 INJ, OD 200MM
40171520-FG62	HDPE ELBOW 45° PN16 SDR11 INJ, OD 225MM
40171520-FG63	HDPE ELBOW 45° PN16 SDR11 INJ, OD 250MM
40171520-FG64	HDPE ELBOW 45° PN16 SDR11 INJ, OD 315MM

**ELBOW 45° PN16-PN10.**

<b>Product Code</b>	<b>Description</b>
40171520-FG65	HDPE ELBOW 45° PN16-PN10, OD 40MM
40171520-FG66	HDPE ELBOW 45° PN16-PN10, OD 50MM
40171520-FG67	HDPE ELBOW 45° PN16-PN10, OD 63MM
40171520-FG68	HDPE ELBOW 45° PN16-PN10, OD75MM
40171520-FG69	HDPE ELBOW 45° PN16-PN10, OD 45MM
40171520-FG70	HDPE ELBOW 45° PN16-PN10, OD 110MM

**EQUAL TEE PN16 SDR11 INJ**

<b>Product Code</b>	<b>Description</b>
40171520-FG71	HDPE EQUAL TEE PN16 SDR11 INJ, OD 63MM
40171520-FG72	HDPE EQUAL TEE PN16 SDR11 INJ, OD 75MM
40171520-FG73	HDPE EQUAL TEE PN16 SDR11 INJ, OD 90MM
40171520-FG74	HDPE B EQUAL TEE PN16 SDR11 INJ, OD 110MM
40171520-FG75	HDPE EQUAL TEE PN16 SDR11 INJ, OD 160MM
40171520-FG76	HDPE EQUAL TEE PN16 SDR11 INJ, OD 200MM
40171520-FG77	HDPE EQUAL TEE PN16 SDR11 INJ, OD 225MM
40171520-FG78	HDPE EQUAL TEE PN16 SDR11 INJ, OD 250MM
40171520-FG79	HDPE B EQUAL TEE PN16 SDR11 INJ, OD 315MM

**EQUAL TEE PN16 - PN10.**

<b>Product Code</b>	<b>Description</b>
40171520-FG80	HDPE EQUAL TEE PN16-PN10, OD 40MM
40171520-FG81	HDPE EQUAL TEE PN16-PN10, OD 50MM
40171520-FG82	HDPE EQUAL TEE PN16-PN10, OD 63MM
40171520-FG83	HDPE EQUAL TEE PN16-PN10, OD 75MM
40171520-FG84	HDPE EQUAL TEE PN16-PN10, OD 90MM
40171520-FG85	HDPE EQUAL TEE PN16-PN10, OD 110MM
40171520-FG86	HDPE EQUAL TEE PN16 SDR11, OD 160MM

**MALE ADAPTOR PN16.**

<b>Product Code</b>	<b>Description</b>
40171520-FG87	PE-STEEL BRASS MALE ADAPTOR PN16. 20-1/2"
40171520-FG88	PE-STEEL BRASS MALE ADAPTOR PN16. 25-3/4"
40171520-FG89	PE-STEEL BRASS MALE ADAPTOR PN16. 32-1"
40171520-FG90	PE-STEEL BRASS MALE ADAPTOR PN16. 40-1 1/4"
40171520-FG91	PE-STEEL BRASS MALE ADAPTOR PN16. 250-1 1/2"
40171520-FG92	PE-STEEL BRASS MALE ADAPTOR PN16. 63-2"

**FEMALE ADAPTOR.**

<b>Product Code</b>	<b>Description</b>
40171520-FG93	PE-STEEL BRASS FEMALE ADAPTOR PN16. 20-1/2"
40171520-FG94	PE-STEEL BRASS FEMALE ADAPTOR PN16. 25-3/4"
40171520-FG95	PE-STEEL BRASS FEMALE ADAPTOR PN16. 32-1"
40171520-FG96	PE-STEEL BRASS FEMALE ADAPTOR PN16. 40-1 1/4"
40171520-FG97	PE-STEEL BRASS FEMALE ADAPTOR PN16. 250-1 1/2"
40171520-FG98	PE-STEEL BRASS FEMALE ADAPTOR PN16. 63-2"

**BRANCH TEE 45°**

<b>Product Code</b>	<b>Description</b>
40171520-FG99	HDPE BRANCH TEE 45° PN16 SDR11 INJ, OD 110MM
40171520-FG100	HDPE BRANCH TEE 45° PN16 SDR11 INJ, OD 160MM







OUR BRAND



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