

SHK[®]
PPR Pipes & Fittings

**THE SUSTAINABLE
PIPING SYSTEM**



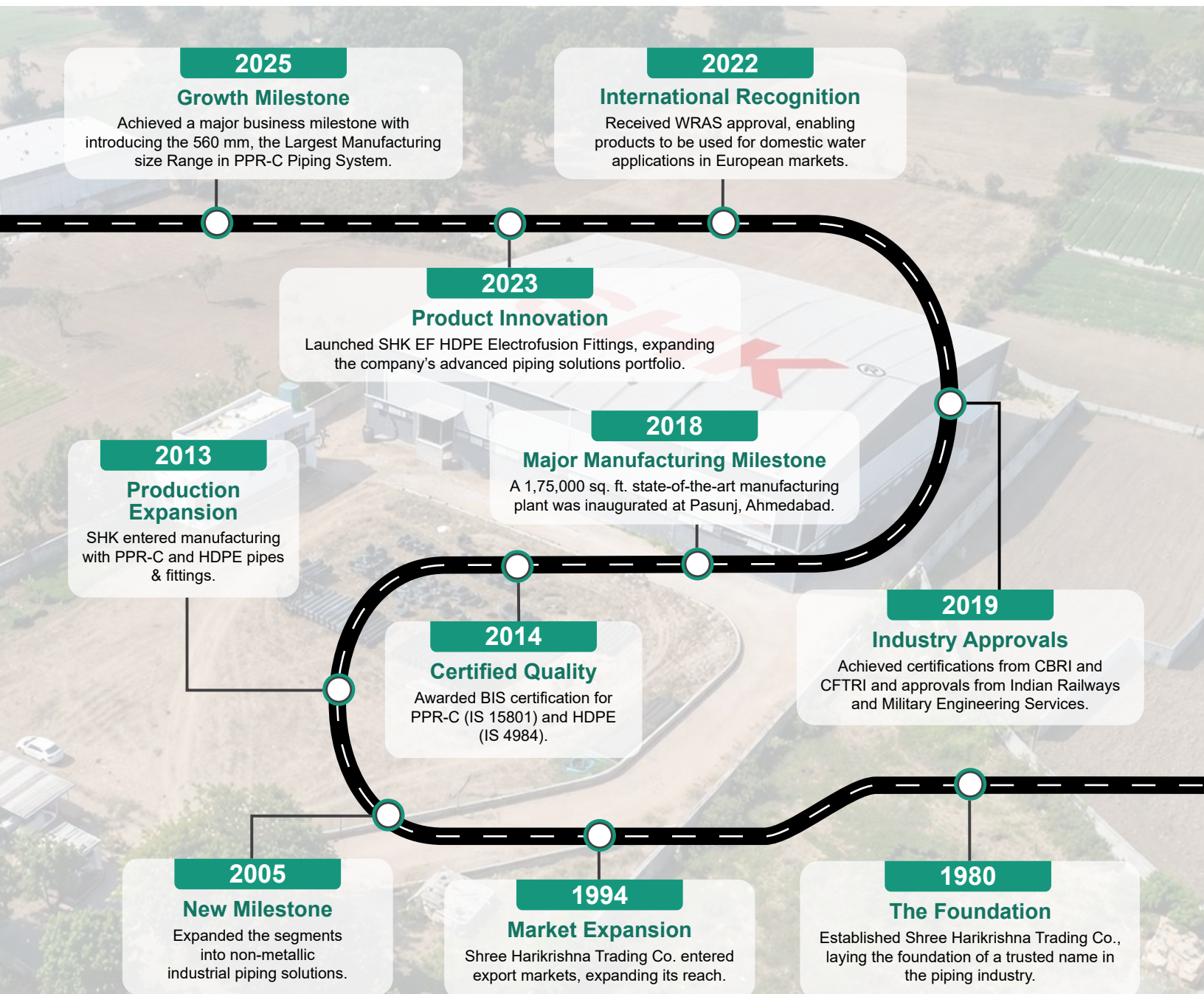
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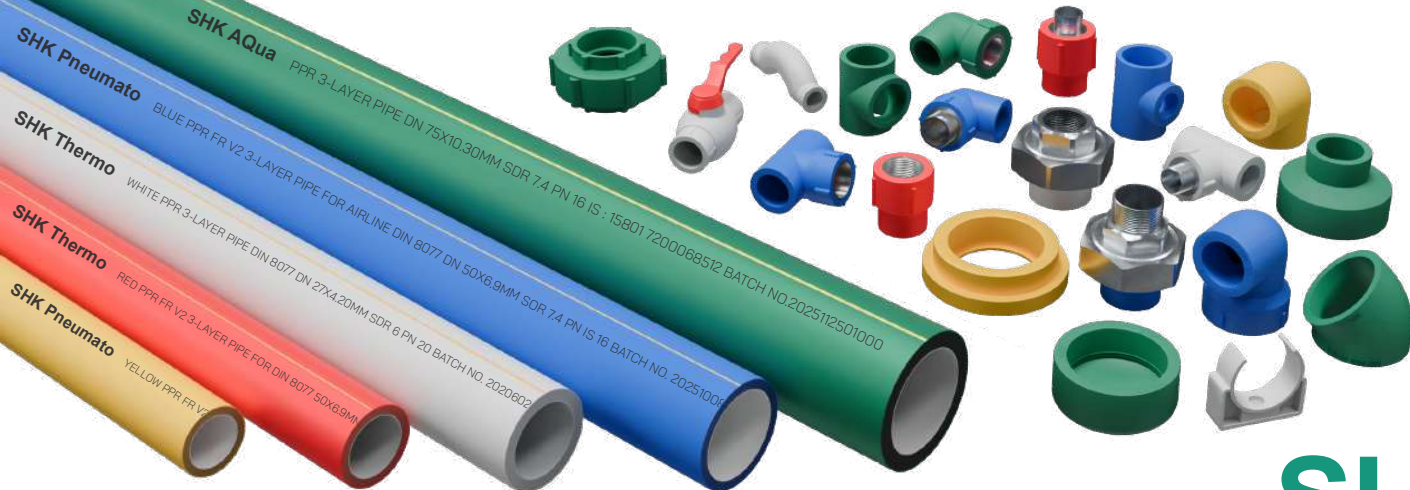
ABOUT US

SHK Polymers Industries Pvt. Ltd. stands at the forefront of advanced piping solutions, combining over four decades of industry expertise with a forward-looking commitment to sustainable infrastructure. As a trusted manufacturer of high-performance PPR-C and HDPE piping systems, we deliver engineered solutions that meet the evolving demands of modern construction, real estate, and industrial applications.

Driven by precision manufacturing and certified under ISO 9001:2008, our products are developed in compliance with globally recognized standards such as IS 15801:2008, DIN 16962 & DIN 8077, and IS 4984. Our PPR-C piping systems are available from 20 mm to 560 mm across PN10, PN16, and PN20 ratings and designed for superior thermal resistance, pressure handling, and long service life, making them ideal for HVAC systems, hot and cold-water distribution, compressed air, and chemical conveyance. At SHK, sustainability is not an add-on; it is embedded in our engineering philosophy. Our piping solutions are corrosion-resistant, energy-efficient, and contribute to a significantly lower CO₂ footprint over their lifecycle.

Backed by state-of-the-art manufacturing facilities, advanced automation, and in-house quality testing, SHK Polymers ensures consistent performance, reliability, and compliance with both Indian and international benchmarks.





SHK PPR-C PIPES

THE FUTURE OF PIPING SYSTEMS

PPR-C (Polypropylene Random Copolymer) pipes are an advanced piping solution designed for long-lasting performance, safety, and efficiency. Compared to traditional metal pipes, PPR-C pipes provide corrosion resistance, superior durability, and hygienic water transportation, making them ideal for modern plumbing, HVAC, and industrial applications.



Environmental Benefits

- **Eco-Friendly Material** – Made from recyclable and non-toxic material.
- **Energy Efficient Production** – Lower energy consumption during production.
- **50 Trees Saved for** – Every ton of PPR-C Pipes used instead of MS Pipes.
- **Safe for Drinking Water** – Maintains water purity and hygiene.



Technical Benefits

- **High Temperature Resistance** from (-10) to 95 Degree Celsius – Suitable for hot & cold water applications & HVAC Systems
- **Corrosion & Chemical Resistance** – No rust or scaling like metal pipes.
- **Smooth Inner Surface** with frictional factor of 1.25 ft/100 ft – Ensures efficient flow with minimal pressure loss.
- **High Pressure Resistance** – Designed to handle demanding industrial conditions & High Rise Building Applications.
- **Low Thermal Conductivity of 0.23 W/m-k** – Helps in reducing the thickness of insulation requirement for Chilled Water Applications.



Installation Benefits

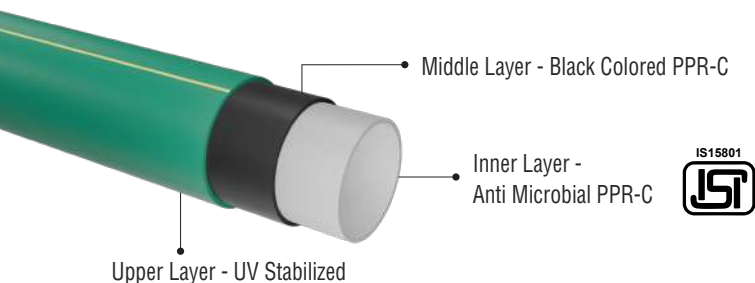
- **Leak-Proof Joints** – Heat fusion technology ensures strong & Homogeneous connections with 0 Leakage Chances in the Future.
- **Lightweight & Easy to Handle** – 40% Faster installation compared to metal pipes.
- **Low Maintenance** – Long service life with minimal repairs.



OUR PRODUCT RANGE

SHK[®] Aqua

Triple Layer PPR-C Pipes & Fittings



Flowing Excellence in Every Pipe

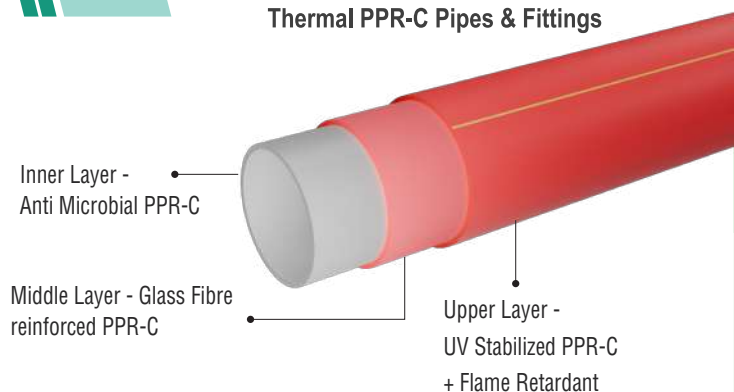
SHK Aqua features triple-layer PPR-C technology designed to ensure safe, hygienic, and long-lasting water supply. The UV-stabilized outer layer protects against environmental exposure, while the anti-microbial inner layer maintains water purity for residential, commercial and industrial systems.

Engineered for Fire & Chemical Applications

SHK Thermo pipes are engineered with glass fibre reinforced PPR-C technology to handle high temperatures and chemical based applications. These pipes provide excellent strength, reduced thermal expansion, and dependable performance.

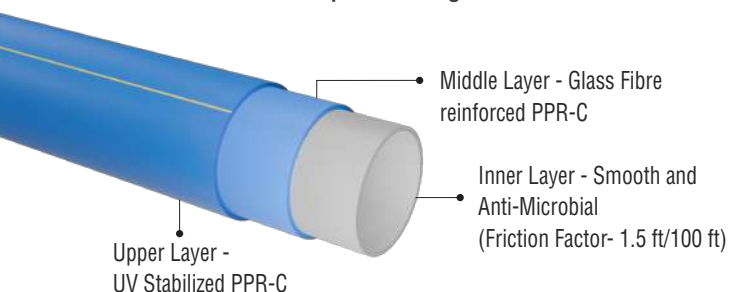
SHK[®] Thermo

Thermal PPR-C Pipes & Fittings



SHK[®] Pneumato

Pneumatic PPR-C Pipes & Fittings



Sustainable Pipes for Maximum Airflow & Minimum Energy Loss.

SHK Pneumato pipes are specially designed for compressed air distribution systems. With smooth inner surfaces and glass fibre reinforced structure, they ensure efficient airflow, reduced friction loss, and durable performance in industrial pneumatic applications.

Available Colors





APPLICATIONS OF PPR-C PIPES



**HOT AND COLD
WATER SUPPLY**



**CHEMICAL SUPPLY
SYSTEMS**



**PROCESS PIPING
SYSTEMS**



**FIRE FIGHTING
SYSTEMS**



**ETP / STP / WTP
SYSTEMS**



**COOLING TOWER &
CHILLED WATER SUPPLY**



**CLEAN WATER
SUPPLY**



PLUMBING



**COMPRESSED AIR
SYSTEMS**



**NITROGEN AIR
SUPPLY**



**VACUUM &
OXYGEN SUPPLY**



SHK PPR PRE-INSULATED PIPING SYSTEM

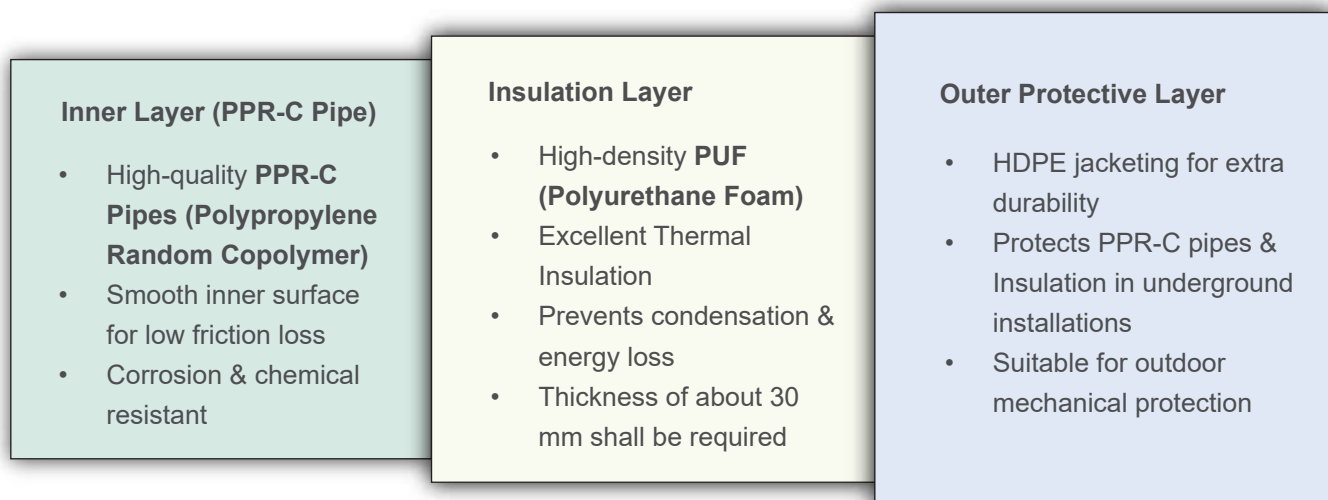


Smart. Efficient. Energy-Saving Piping Solutions.

The SHK Pre-Insulated Piping System is an advanced solution designed for efficient Chilled Water Supply. Engineered with precision, this system ensures energy efficiency, durability, and long service life, making it ideal for HVAC & industrial applications.

System Construction

The SHK Pre-Insulated Pipe consists of a 3-layer structure:



Key Features

- 1. Superior Thermal Efficiency**
Reduces heat loss by 200 times compared to MS Piping system ensuring energy savings
- 2. Condensation-Free Performance**
Ideal for chilled water applications
- 3. Quick & Easy Installation**
Factory-insulated pipes reduce on-site labour work
- 4. Long Service Life**
50+ years lifespan with minimal maintenance

Applications

- HVAC Systems (Chilled & Hot Water Lines)
- District Cooling Systems
- Hospitals & Commercial Buildings
- Hotels & Residential Complexes
- Solar Water Heating Systems

Technical Range

- **Size Range:** 20 mm to 560 mm
- **Temperature Range:** -10° to 95° C
- **Pressure Rating:** PN 10 / PN 16 / PN 20
- **Installation:** Reduced Installation Time up to 50% with consistent insulation quality





STANDARD SIZES OF PPR-C WITH WALL THICKNESS

MS PIPE SIZING	OUTER DIAMETER (PPR PIPES) (MM)	SIZE DETAILS ACCORDING TO INCH	SDR11/PN10			SDR7.4/PN16			SDR6/PN20		
			THICKNESS	INNER DIAMETER	KG/Meter	THICKNESS	INNER DIAMETER	KG/Meter	THICKNESS	INNER DIAMETER	KG/Meter
15 MM	20	1/2"	1.9	16.2	0.107	2.8	14.4	0.148	3.4	13.2	0.172
20 MM	25	3/4"	2.3	20.4	0.164	3.5	18.0	0.230	4.2	16.6	0.266
25 MM	32	1"	2.9	26.2	0.261	4.4	23.2	0.370	5.4	21.2	0.434
32 MM	40	1 1/4"	3.7	32.6	0.412	5.5	29.0	0.575	6.7	26.6	0.671
40 MM	50	1 1/2"	4.6	40.8	0.638	6.9	36.2	0.896	8.3	33.4	1.040
50 MM	63	2"	5.8	51.4	1.010	8.6	45.8	1.410	10.5	42.0	1.650
65 MM	75	2 1/2"	6.8	61.4	1.410	10.3	54.4	2.010	12.5	50.0	2.340
80 MM	90	3"	8.2	73.6	2.030	12.3	65.4	2.870	15.0	60.0	3.360
100 MM	110	4"	10.0	90.0	3.010	15.1	79.8	4.300	18.3	73.4	5.010
125 MM	125	5"	11.4	102.2	3.910	17.1	90.8	5.530	20.8	83.4	6.470
150 MM	160	6"	14.6	130.8	6.380	21.9	116.2	9.040	26.6	106.8	10.600
200 MM	200	8"	18.2	163.6	9.920	27.4	145.2	14.180	34.0	132.0	17.150

MS PIPE SIZING	OUTER DIAMETER (PPR PIPES) (MM)	SIZE DETAILS ACCORDING TO INCHES	SDR17/PN6			SDR13.6/PN8			SDR11/PN10		
			THICKNESS	INNER DIAMETER	KG/Meter	THICKNESS	INNER DIAMETER	KG/Meter	THICKNESS	INNER DIAMETER	KG/Meter
200 MM	200	8"	11.4	177.6	7.050	14.7	170.6	8.27	18.2	163.6	9.920
250 MM	250	10"	14.2	221.6	10.940	18.4	213.2	13.30	22.7	204.6	15.528
300 MM	315	12"	17.9	279.2	17.572	23.3	268.4	21.19	28.6	257.8	24.683
400 MM	400	16"	23.5	353.0	28.060						
450 MM	450	18"	25.5	399.0	32.500						
500 MM	500	20"	28.4	443.2	40.200						
550 MM	560	22"	31.7	496.6	50.500						

Note : All Dimensions are in MM.

SDR Means Standard Dimensional Ratio which is THE RATIO OF OUTER DIAMETER WITH THE THICKNESS OF THE PIPES.



THERMAL PROPERTIES

Properties	Value	Unit	Test Method
Thermal Conductivity at 23°C	0.23	W/mK	DIN 52612
Specific Heat at 23°C	1.73	KJ/kgK	Calorimeter
Coefficient of Linear Thermal Expansion	1.5×10^{-4}	K ⁻¹	DIN 53752
Under Weight Deformation Temperature 1.8 N/mm ²	44	°C	ISO 306
Under Weight Deformation Temperature 0.45 N/mm ²	42	°C	ISO 3146
VICAT Softening Point	130	°C	0.095

MECHANICAL PROPERTIES

Properties	Value	Unit	Test Method
Tensile Stress at Yield (50 mm/minute)	24	MPa	ISO 527-1,2
Tensile Stress at Yield (50 mm/minute)	10	%	ISO 527-1,2
Tensile Modulus (Secant)	850	MPa	ISO 527-1,2
Flexural Modulus	850	MPa	ASTM D 790
Tear Strength	40	MPa	ISO 527
Elongation at Tear	800	%	ISO 527
Shore D Hardness	65	-	DIN 53 505
Pipe Friction Factor	0.007	-	-

CHARPY IMPACT STRENGTH

Temperature	Value	Unit	Test Method
23°C	22	KJ/m ²	ISO 179/1eA
0°C	4	KJ/m ²	ISO 179/1eA
-30°C	2.5	KJ/m ²	ISO 179/1eA

CHARPY IMPACT STRENGTH (UNNOTCHED)

Temperature	Value	Unit	Test Method
23°C	No failure	KJ/m ²	ISO 179/1eA
0°C	No failure	KJ/m ²	ISO 179/1eA
-30°C	43	KJ/m ²	ISO 179/1eA

PHYSICAL PROPERTIES

Properties	Value	Unit	Test Method
Density	0.91	g/cm ³	ASTM D792
Melt Flow Index MFI 190°C / 5 kg	0.40	g/10 min	ASTM D1238
MFI 230°C / 2.16 kg	0.20	g/10 min	ISO R 1133
MFI 230°C / 5 kg	0.60	g/10 min	DIN 53 735

SUPPORT DISTANCE CHART FOR SHK PPR-C PIPING SYSTEM

Outside Diameter of Pipe (mm)	Temperature in Degree – Support in cms					
	20°C	30°C	40°C	50°C	60°C	70°C
20	80	75	70	70	65	60
25	85	85	85	80	75	70
32	100	95	95	90	85	75
40	110	110	105	100	95	85
50	125	120	115	110	105	90
63	140	135	130	125	120	105
75	155	150	145	135	130	115
90	170	165	160	155	150	145
110	190	185	180	175	160	165
125	195	190	190	180	170	170
160	200	200	200	195	180	175
200	225	225	225	225	210	200
250	245	245	245	245	235	235
315	275	275	275	275	265	250
400	295	295	295	295	280	265
450	310	310	310	305	300	280
500	320	320	320	315	315	290
560	335	335	335	320	320	295

SHK PPR-C PIPE SELECTION CHART FOR COMPRESSED AIR SYSTEM

(CFM VS. PIPE DIA VS. LENGTH)

Flow Rate (CFM)	Length									
	164 FT (50m)	328 FT (100m)	429 FT (150m)	984 FT (300m)	1640 FT (500m)	2460 FT (750m)	3280 FT (1000m)	4265 FT (1300m)	5249 FT (1600m)	6562 FT (2000m)
8	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	1"
18	3/4"	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
29	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
49	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	2"	2"
59	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"
88	1 1/4"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2 1/2"	2 1/2"
147	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
206	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
294	2 1/2"	2 1/2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	3"
441	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	3"	3"	3"	3"
589	2 1/2"	2 1/2"	3"	3"	3"	3"	3"	4"	4"	4"
883	3"	3"	3"	3"	3"	4"	4"	4"	4"	4"
1030	3"	3"	3"	4"	4"	4"	4"	4"	4"	4"
1766	4"	4"	4"	4"	4"	4"	4"	6"	6"	6"
2000	4"	4"	4"	4"	6"	6"	6"	8"	8"	8"
2500	6"	6"	6"	6"	8"	8"	8"	8"	8"	8"



ALLOWABLE WORKING PRESSURE TABLE (PPR PIPES)

Temperature in C	Years of Service	SDR 11 / PN 10	SDR 7.4 / PN 16	SDR 6 / PN 20
10	1	21.1	33.4	42.1
	5	19.8	31.5	39.7
	10	19.3	30.7	38.6
	25	18.7	29.7	37.4
	50	18.2	28.9	36.4
	100	17.8	28.2	35.5
20	1	18.0	28.5	35.9
	5	16.9	26.8	33.7
	10	16.4	26.1	32.8
	25	15.9	25.2	31.7
	50	15.4	24.5	30.9
	100	15.0	23.9	30.1
30	1	15.3	24.2	30.5
	5	14.3	22.7	28.6
	10	13.9	22.1	27.8
	25	13.4	21.3	26.8
	50	13.0	20.7	26.1
	100	12.7	20.1	25.4
40	1	13.0	20.6	25.9
	5	12.1	19.2	24.2
	10	11.8	18.7	23.5
	25	11.3	18.0	22.6
	50	11.0	17.4	22.0
	100	10.7	16.9	21.4
50	1	11.0	17.4	21.9
	5	10.2	16.2	20.4
	10	9.9	15.7	19.8
	25	9.5	15.1	19.0
	50	9.2	14.7	18.5
	100	9.0	14.2	17.9

Temperature in C	Years of Service	SDR 11 / PN 10	SDR 7.4 / PN 16	SDR 6 / PN 20
60	1	9.2	14.7	18.5
	5	8.6	13.6	17.2
	10	8.3	13.2	16.6
	25	8.0	12.7	16.0
	50	7.7	12.3	15.5
70	1	7.8	12.3	14.4
	5	7.2	11.4	13.9
	10	7.0	11.1	12.1
	25	6.0	9.6	12.1
	50	5.1	8.1	10.2
80	1	6.5	10.3	13.0
	5	5.7	9.1	11.5
	10	4.8	7.7	9.7
95	25	3.9	6.2	7.8
	1	4.6	7.3	9.2
	5	3.1	4.9	6.2
	10	(2.6)	(4.1)	(5.2)

Note: According to DIN 8077:1999-07, allowable working pressure for PPR pipes with Safety Factor (SF) = 1.25.





SHK PPR-C FLOW RATE CHART FOR WATER SUPPLY SYSTEM

Velocity: Up to 2.5 m/s					
Flow (GPM)	FRICTIONAL LOSS (FT/ 100 FT)	PPR PIPES DETAILS			
		PN6 (MM)	PN10 (MM)	PN16 (MM)	PN20 (MM)
3 to 4	4.00	–	–	20	20
4 to 5	4.00	–	–	25	25
5 to 6	4.00	–	–	25	25
6 to 8	4.00	–	–	32	32
8 to 10	4.00	–	40	40	50
10 to 15	3.00	–	40	40	50
15 to 25	3.00	–	40	40	50
25 to 40	3.25	–	40	50	50
40 to 60	3.50	–	50	63	63
60 to 80	4.00	–	63	75	75
80 to 150	3.25	–	75	90	90
150 to 200	2.50	–	90	110	110
200 to 400	2.00	–	110	125	125
400 to 600	1.50	–	160	200	200
600 to 1000	1.25	200	200	250	250
1000 to 1500	1.75	200	250	250	250
1500 to 2000	1.25	250	250	315	–
2000 to 4000	1.50	315	315	–	–
4000 to 5000	1.25	400	400	–	–
5000 to 6000	2.00	400	450	–	–
6000 to 7000	1.50	450	450	–	–
7000 to 8000	2.00	450	500	–	–
8000 to 10000	1.50	560	560	–	–
10000 to 15000	2.50	630	630	–	–



TECHNO-COMMERCIAL COMPARISON

MS PIPES VS PPR-C PIPES

Property	MS Pipes	PPR Pipes
Service Life	3–5 Years	Up to 50 Years
Food Grade	Poor (corrosion issues)	Hygienic, CFTRI & WRAS approved
Leakage	High Risk (Welding)	Negligible (Socket Fusion)
Heat Loss	High	Very Low
Thermal Conductivity	Very High (45 W/mK)	Low (0.23 W/mK)
Insulation Requirement	Thick Insulation Needed	Minimal Insulation
Maintenance Cost	High	Very Low (15–20 yrs)
Corrosion Resistance	No	Excellent (No Corrosion)
Friction Loss	High (6 ft/100 ft)	Low (1.25 ft/100 ft)
Weight	Heavy	Light weight
Painting Cost	Required	None
Installation Time	Slow & Complex	Fast & Easy

CPVC PIPES VS PPR-C PIPES

Property	CPVC Pipes	PPR Pipes
Service Life	15–20 Years	Up to 50 Years
Food Grade	Non-hygienic (Joint solution contamination risk)	Hygienic, CFTRI & WRAS approved
Leakage	High (Adhesive-based joints)	Negligible (Socket fusion joints)
Maintenance Cost	High after 5–6 years	Very Low (15–20 yrs)
Young's Modulus	~3275 MPa (Rigid & Brittle)	~850 MPa (Tough & Ductile)
Temperature Resistance	10°C to 80°C (Joints up to 60°C)	-10°C to 95°C





SHK PPR-C PIPES

INSTALLATION METHODOLOGY

Installation of PPR-C piping system is done by socket-fusion & butt-fusion jointing method where pipes and fittings are heated and jointed providing a “homogeneous” joint.

- **Preparation** : Cut the pipe square and clean both the pipe end and the fitting.
- **Heating** : Use the fusion machine to heat the pipe and fitting simultaneously for a specified time.
- **Fusion** : Push the heated components together without twisting.
- **Cooling** : Allow the joint to cool and set, creating a seamless, permanent bond.
- **Testing** : Conduct a pressure test to ensure the entire system is ready for operation.



Cutting



Heating



Welding

There are various parameters to be kept in mind while performing a PPR-C jointing process which are mentioned below:

Pipe Size (mm)	Insertion Depth (mm)	Heating Time (sec)	Welding Time (sec)	Cooling Time (min)
20	14	5	4	2
25	15	7	4	2
32	16	8	6	4
40	18	12	6	4
50	20	18	6	4
63	24	24	8	6
75	26	30	8	6
90	29	40	8	8
110	32	50	10	8
125	35	60	10	10
160	40	80	12	15
200	45	120	15	20
250	50	180	20	30
315	55	240	25	40
400	65	300	30	50
500	75	360	40	60

Temperature Control

- Welding machine temperature: $260^{\circ}\text{C} \pm 10^{\circ}\text{C}$
- Too low → weak joint
- Too high → pipe deformation / choking

Timing Discipline

- Heating time starts after full insertion into heater die
- No rotation during heating or joining

Weather Adjustment

- Cold weather → increase heating time by 50%
- Hot weather → reduce slightly

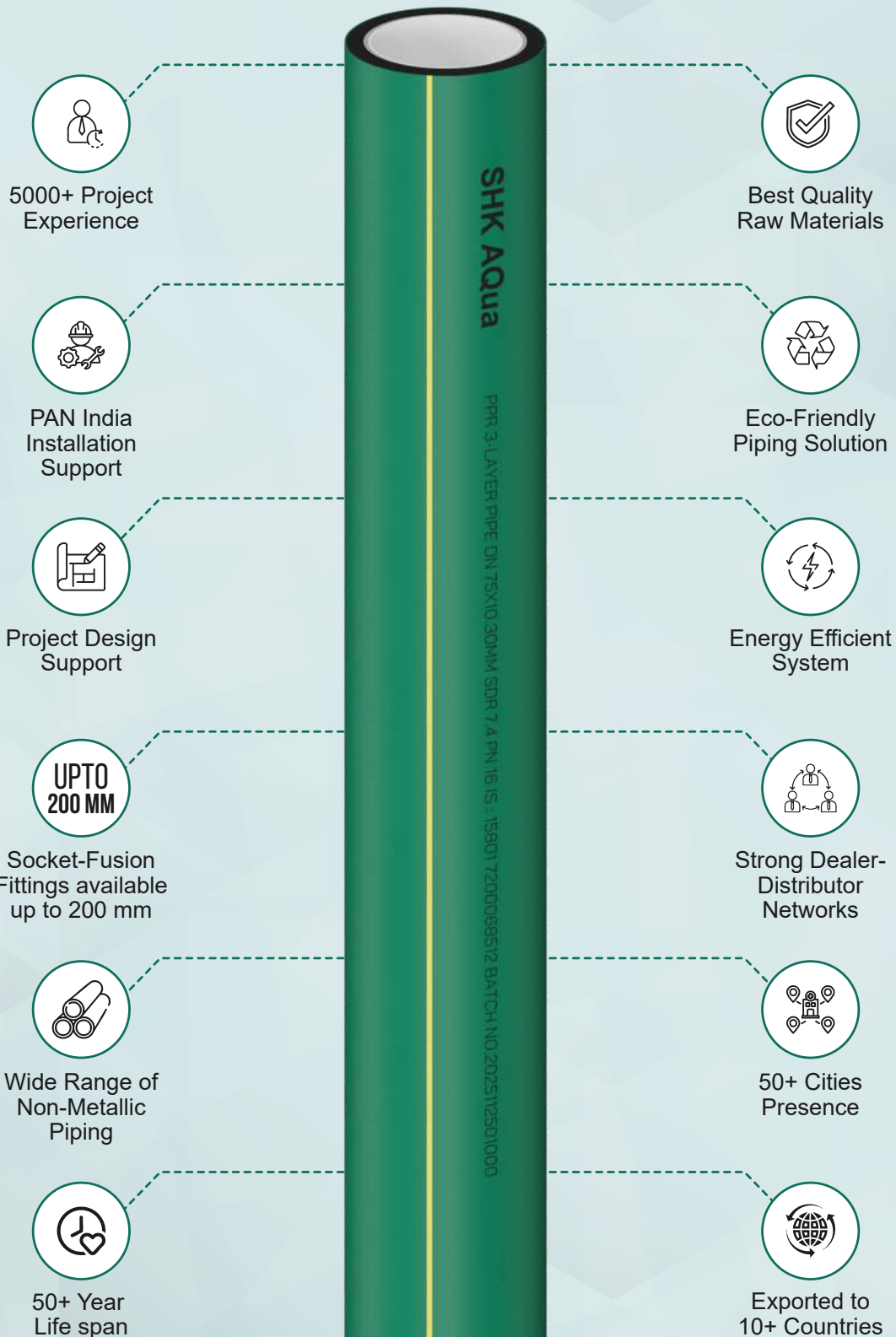
For Large Sizes (Above 160 mm)

- Use hydraulic fusion machine
- Ensure proper alignment
- Ensure uniform ring formation
- Ensure no angular misalignment



WHY CHOOSE SHK

RELIABLE PIPING SOLUTIONS ENGINEERED FOR PERFORMANCE





PRODUCT RANGE



SHK[®] Aqua
Triple Layer PPR-C Pipes & Fittings

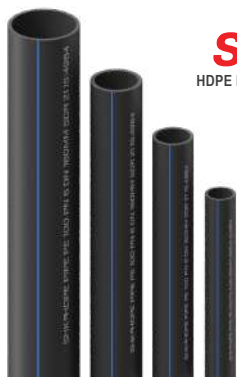
SHK PPR-C Triple Layer Pipes & Fittings

Type	Size
PN 06 Pipes	200 mm to 560 mm
PN 10 Pipes	40 mm to 500 mm
PN 16 Pipes	20 mm to 315 mm
PN 20 Pipes	20 mm to 200 mm

SHK Pneumato PPR-C Pipes & Fittings

Type	Size
PN 06 Pipes	200 mm to 560 mm
PN 10 Pipes	40 mm to 560 mm
PN 16 Pipes	20 mm to 315 mm
PN 20 Pipes	20 mm to 200 mm

SHK[®] Pneumato
Pneumatic PPR-C Pipes & Fittings



SHK[®]
HDPE Pipes & Fittings

SHK HDPE Pipes & Fittings (PE100, PE80 & PE63)

Type	Size
PN 2.5 to PN 06 Pipes	50 mm to 560 mm
PN 08 to PN 12.5 Pipes	32 mm to 560 mm
PN 16 Pipes	20 mm to 315 mm

SHK HDPE Electrofusion Fittings

Type	Size
HDPE Electrofusion Fittings	20 mm to 400 mm
HDPE Spigot Fittings	63 mm to 400 mm

SHK[®] EF⁺
ElectroFusion Fittings





PPR-C GREEN FITTINGS

SIZE : 20 MM to 500 MM



Socket



Elbow 90 degree



Elbow 45 degree



Tee



End Cap



Flange Core
/Stubend



Reducer



Reducer Tee



PPR-Flange



MS Powder
Coated Flange



Reducing Elbow



Union



Long Bend



FT Saddle



Saddle



Wall Clamp





PPR-C GREEN FITTINGS

SIZE : 20 MM to 500 MM



FT Socket



MT Socket



FT Union



MT Union



FT Elbow



MT Elbow



FT Tee



MT Tee



Gate Valve



Plastic Body
Ball Valve



Tank
Connector



Long Plug



Cross Tee



PPR Double
Battery



PPR Ball Valve
Brass



Crossover Bend



PPR-C BLUE FITTINGS

SIZE : 20 MM to 500 MM



Socket



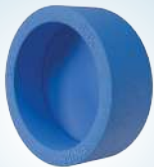
Elbow 90 degree



Elbow 45 degree



Tee



End Cap



Flange Core
/Stubend



Reducer



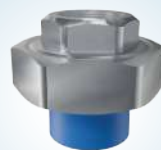
Reducer Tee



FT Socket



MT Socket



FT Union



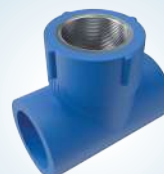
MT Union



FT Elbow



MT Elbow



FT Tee



MT Tee



Long Bend



Flange



Union



Cross Tee



QUALITY CERTIFICATES

BUREAU OF INDIAN STANDARDS
Attachment to Licence No. CML-720006512

CML-NO	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
720006512	SHK POLYMERS INDUSTRIES Plot No. 139/1, GIDC Phase I, Opp. Patel Alloys Steel Ltd., GIDC Estate, Vatva, Ahmedabad - 382445, Gujarat, India	Polypropylene random copolymer Pipes for hot and cold water supplies IS 15801 : 2008	382445

Endorsement No. 10 Dated 11-Nov-2025

Whereas, the licence was valid upto Twenty Fifth November Two Thousand Twenty Five.

Now, consequent upon renewal, the validity of the licence given in schedule of the Licence Dated 24-NOV-2025 has been extended from Twenty Fifth November Two Thousand Twenty Five to Twenty Fourth November Two Thousand Twenty Six

Other terms and conditions of licence remain same.

Branch Head (Ahmedabad Branch Office)

QRO
QUALITY RESEARCH ORGANIZATION

Certificate of Registration

This is to certify that:

SHK POLYMERS INDUSTRIES PRIVATE LIMITED
REGD. ADDRESS: "HARKRISHNA HOUSE" PLOT NO. 139/1, PHASE I, OPP. PATEL ALLOYS STEEL LTD., GIDC, VATVA, AHMEDABAD-382445, GUJARAT, INDIA.
FACTORY ADDRESS: SEVEN ROAD, HELIPAD PATEL, ROAD PANDOLIM, VILLAGE-PANOLI, TA. DANKHOL, DIST. AHMEDABAD-382408, GUJARAT, INDIA.

has been independently assessed by QRO and is compliant with the requirement of:

ISO 9001:2015
Quality Management System

For the following scope of activities:

MANUFACTURE AND SUPPLY OF HDPE PIPES, PLB DUCT, PPR PIPES, INDUSTRIAL PP VALVES, HDPE FITTING, PPR FITTING AND THERMAL COMPOSITE PIPES, HDPE, PPR & ALL TYPES OF PIPES & FITTINGS.

Date of Certification: 28th February 2026
1st Surveillance Audit Due: 27th February 2027
Certificate Expiry: 27th February 2029

Certificate Number: 305202022880Q

Authorised Signatory

USCERT
UKAS CERTIFICATION

Certificate of Registration

This is to certify that

SHK POLYMERS INDUSTRIES
at

"HARKRISHNA HOUSE" PLOT NO. 139/1, GIDC PHASE I, OPP. PATEL ALLOYS STEEL LTD., GIDC, VATVA, AHMEDABAD, GUJARAT, 382445

Has been independently assessed and is compliant with requirement of:

ISO/IEC 17025:2017
(General Requirements for the Competence of Testing Laboratories)

For the following Scope of Activities:

TESTING OF HDPE PIPES, PLB DUCT, PPR PIPES, INDUSTRIAL PP VALVES, HDPE FITTINGS, PPR FITTINGS AND THERMAL COMPOSITE PIPES.

Certificate Number: UQ-25176

Validity of this certificate can be verified at www.ukascertifications.co.uk

Date of Certification: 17 Feb. 2026
1st Surveillance Audit Due: 16 Feb. 2027
Certificate expiry (Subject to the Company Maintaining its system as per the required standard): 16 Feb. 2029

Authorised Signatory

ISO 45001:2018

Certificate of Registration

This is to Certify That

Occupational Health & Safety Management System of

SHK POLYMERS INDUSTRIES

PLOT NO. 139/1, GIDC PHASE I, OPP. PATEL ALLOYS GIDC, VATVA ROAD, VATVA, AHMEDABAD - 382445, GUJARAT, INDIA

has been assessed and found to conform to the requirements of

ISO 45001:2018

For the following scope :

MANUFACTURING AND TESTING OF HDPE PIPES, PLB DUCT, PPR PIPES, INDUSTRIAL PP VALVES, HDPE FITTINGS, PPR FITTINGS AND THERMAL COMPOSITE PIPES.

Certificate No : 26MEOX517
Initial Registration Date : 25/08/2026
Date of Expiry : 24/08/2029
1st Surve. Due : 25/07/2027 2nd Surve. Due : 25/07/2028

Director
MMS
EGAC
IAF
Magnitude Management Services Pvt. Ltd.

ISO 14001:2015

Certificate of Registration

This is to Certify that

Environmental Management System of

SHK POLYMERS INDUSTRIES

PLOT NO. 139/1, GIDC PHASE I, OPP. PATEL ALLOYS GIDC, VATVA ROAD, VATVA, AHMEDABAD - 382445, GUJARAT, INDIA

has been assessed and found to conform to the requirements of

ISO 14001:2015

For the following scope :

MANUFACTURING AND TESTING OF HDPE PIPES, PLB DUCT, PPR PIPES, INDUSTRIAL PP VALVES, HDPE FITTINGS, PPR FITTINGS AND THERMAL COMPOSITE PIPES.

Certificate No : 26MEOX17
Initial Registration Date : 25/08/2026
Date of Expiry : 24/08/2029
1st Surve. Due : 25/07/2027 2nd Surve. Due : 25/07/2028

Director
MMS
EGAC
IAF
Magnitude Management Services Pvt. Ltd.

Report No. PPCD/SSP/6796

Report On

Evaluation of "SHK" brand PPR pipes & fittings for hot and cold water supply in buildings

Sponsored by

M/s SHK Polymer Industries
Plot No 111/A, GIDC Estate, Vatva
Ahmedabad-382445 (Gujarat)

CSIR- Central Building Research Institute
Roorkee-247667 (Uttarakhand)
2019

CFRI
Central Food Technological Research Institute, Mysore - 576 008, India

TEST REPORT

Sample Receipt Date : 30.06.2023

NAME & ADDRESS OF THE CUSTOMER : SHK POLYMERS INDUSTRIES
"HARKRISHNA HOUSE", Plot No. 139/1, Phase-I, Opp. Patel Alloy Steel Ltd., GIDC Estate, Vatva, Ahmedabad - 382445, Gujarat

Request Reference : Your letter dated: 22.06.2023

Name of the Product/Sample : PPR Pipes- SHK, Approx 35 mm PN 33

Sample Receipt Date : 30.06.2023

SAMPLE NOT DRAWN BY US

Test Parameter	Standard (IS:15801-2008)	Actual Value (IS:15801-2008)	Test Method
Global Migration Test	0.04	0.04	35 ± 0.047 - 1998 (2004)

IN-3A-1-E-1

Comments: The values are within the limits specified as per IS-15801-2008 (2008), the material can be used for contact with aqueous foodstuffs (contact of more than 24 hours) for drinking and eating.

Information as given to the customer:

Please Note: The results contained in this Test Report relate only to the sample tested. This Report is intended only for your guidance and not valid for legal purposes or for advertisement.

WRAS
WATER REGULATIONS APPROVAL SCHEME LTD (WRAS)

Approved Number 20150251
Test Report: W0150251-1-00000006

27th December 2021

SHK Polymers Industries
Harkrishna House, Plot No. 139/1, Phase - I,
Opp. Patel Alloy Steel Ltd.,
GIDC,
Vatva,
Ahmedabad - 382 445,
Gujarat,
India

WATER REGULATIONS APPROVAL SCHEME LTD (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for use in the Water Fittings Directory for domestic purposes having met the requirements of BS6841:2005 and/or 2014. It is suitable for use in contact with water intended for human consumption with no effect on the quality of the water.

The reference refers solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of mechanical or physical properties for any use.

POLYPROPYLENE-COMPONENTS

SHK Aqua Fitting, Green robust injection moulded PPR fitting. For use with water up to 80 °C.

APPROVAL NUMBER: 20150251
APPROVAL HOLDER: SHK POLYMERS INDUSTRIES

This Scheme reserves the right to review approval.
Approval 20150251 is valid between December 2020 and December 2025

Any entity, as shown, will, according to its inclusion in the Water Fittings Directory on-line under the section headed, "Materials which have passed all tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/water-fittings-directory

Yours Faithfully

Dr. Stephen
WRAS Approval Manager

WRAS
WATER REGULATIONS APPROVAL SCHEME LTD (WRAS)

Approved Number 20150251
Test Report: W0150251-1-00000006

17th February 2022

SHK Polymers Industries
Harkrishna House, Plot No. 139/1, Phase - I,
Opp. Patel Alloy Steel Ltd.,
GIDC,
Vatva,
Ahmedabad - 382 445,
Gujarat,
India

WATER REGULATIONS APPROVAL SCHEME LTD (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for use in the Water Fittings Directory for domestic purposes having met the requirements of BS6841:2005 and/or 2014. It is suitable for use in contact with water intended for human consumption with no effect on the quality of the water.

The reference refers solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of mechanical or physical properties for any use.

POLYPROPYLENE-COMPONENTS

SHK Aqua PPR pipe,
Coloured, multi-layered PPR pipe comprising of a white coloured inner, black coloured middle and green coloured outer layer.

For use with water up to 85 °C.

APPROVAL NUMBER: 20150251
APPROVAL HOLDER: SHK POLYMERS INDUSTRIES

This Scheme reserves the right to review approval.
Approval 20150251 is valid between December 2020 and December 2025

Any entity, as shown, will, according to its inclusion in the Water Fittings Directory on-line under the section headed, "Materials which have passed all tests of effect on water quality".

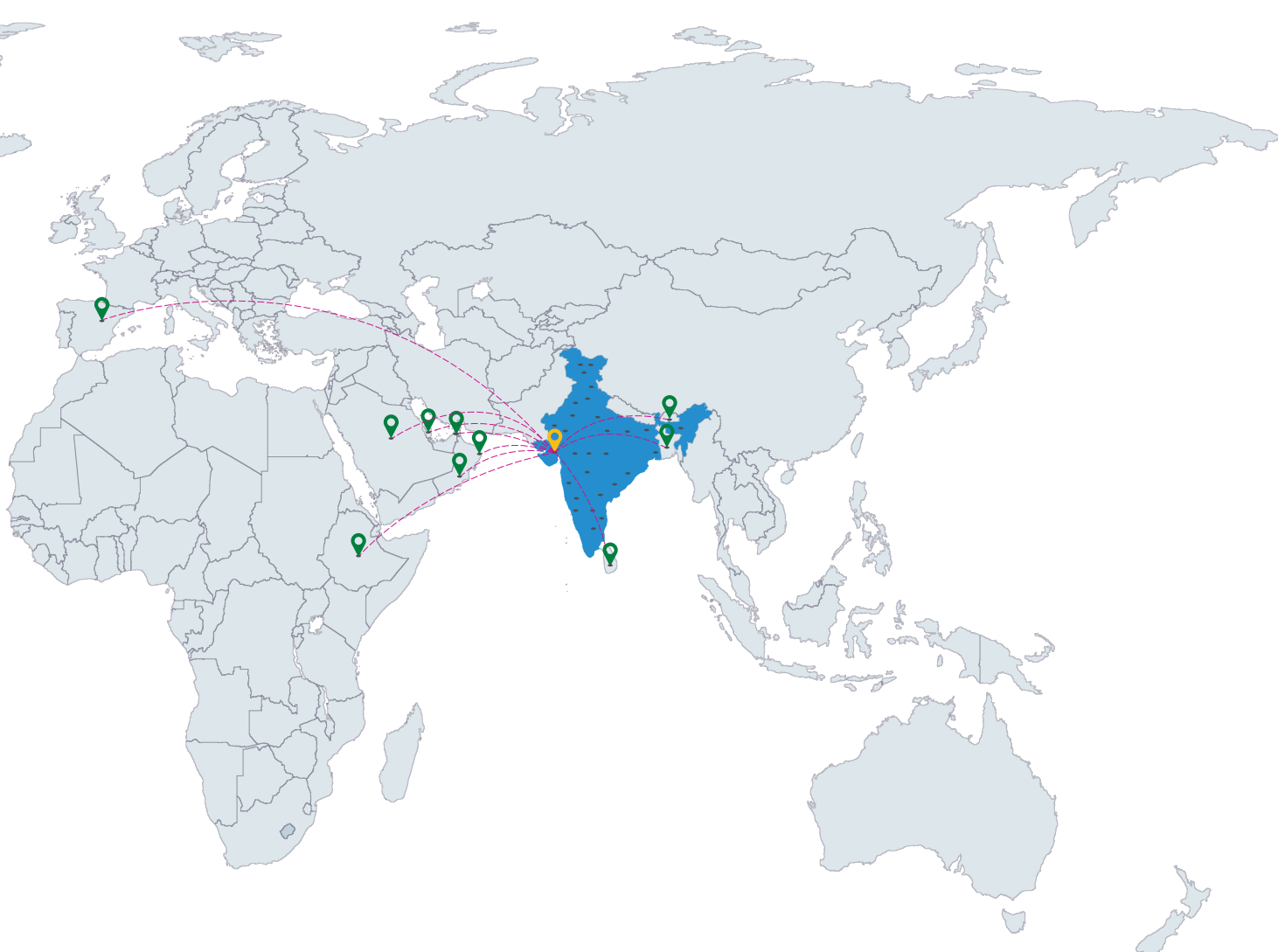
The Directory may be found at: www.wras.co.uk/water-fittings-directory

Yours Faithfully

Dr. Stephen
WRAS Approval Manager



OUR NETWORK



Domestic

1) Ahmedabad	14) Pune	27) Bhopal	40) Kolkata
2) Baroda	15) Mumbai	28) Belgaum	41) Siliguri
3) Ankleshwar	16) Boisar	29) Bangalore	42) Guwahati
4) Dahej	17) Vasai	30) Mangalore	43) Jammu
5) Panoli	18) Solapur	31) Mysore	44) Kashmir
6) Surat	19) Ahmednagar	32) Chennai	45) Leh
7) Vapi	20) Bhuj	33) Coimbatore	46) Delhi
8) Diu and Daman	21) Silvassa	34) Dindigul	47) Patna
9) Morbi	22) Icchhalkaranji	35) Madurai	48) Vizag
10) Rajkot	23) Dhule	36) Cochi	49) Chandigarh
11) Gandhidham	24) Nagpur	37) Goa	50) Sayakha
12) Aurangabad	25) Nashik	38) Hyderabad	51) Jaipur
13) Kolhapur	26) Indore	39) Secunderabad	52) Jodhpur

International

1) Sri Lanka
2) Bangladesh
3) Bhutan
4) Dubai
5) Qatar
6) Oman
7) Ethiopia
8) Spain
9) Saudi Arabia
10) Bahrain



OUR CLIENTS

Sector : Ceramic Industries

					
Application Multiple	Application Multiple	Application Multiple	Application Multiple	Application Compressed Air Supply & Cooling Tower	Application Cooling Tower

Sector : Plastic Industries

				
Application Multiple	Application Cooling Tower	Application Chilled Water Supply	Application Chilled Water Supply	Application Process Cooling

Sector : Food & Beverages

					
Application Cooling Tower & ETP	Application Cooling Tower & ETP	Application Multiple Applications	Application Cooling Tower & Chilled Water Supply	Application Multiple	Application Cooling Tower

Sector : Institutes

				
Application Chilled Water Supply	Application Chilled Water Supply	Application Chilled Water Supply	Application Chilled Water Supply	Application Chilled Water Supply

Sector : Textile

			
Application Multiple	Application Compressed Air Supply	Application Compressed Air Supply & Cooling Tower	Application Multiple

Sector : Solar

					
Application Cooling Tower	Application Compressed Air Supply & Cooling Tower	Application Compressed Air Supply & Cooling Tower	Application Compressed Air Supply & Cooling Tower	Application Multiple	Application Cooling Tower

OUR CLIENTS

Sector : Government



Application
Multiple Applications



Application
Multiple



Application
Chilled Water Supply

Sector : Chemical Industries



Application
Multiple



Application
Multiple



Application
Multiple



Application
Raw water and
Process water



Application
Chemical Supply and
Raw water



Application
Chemical Supply and
Raw water



Application
Multiple



Application
Multiple



Application
Cooling Tower and
Raw water Supply

Sector : HVAC



Application
Process Cooling &
Chilled Water Supply



Application
Chilled Water Supply



Application
Chilled Water Supply



Application
Cooling Tower &
Chilled Water Supply



Application
Chilled Water Supply



Application
Chilled Water Supply



Application
Chilled Water Supply



Application
Chilled Water Supply



Application
Cooling Tower &
Chilled Water Supply



Application
Cooling Tower &
Chilled Water Supply



Application
Cooling Tower &
Chilled Water Supply



Application
Chilled Water Supply



Application
Cooling Tower



Application
Cooling Tower &
Chilled Water Supply

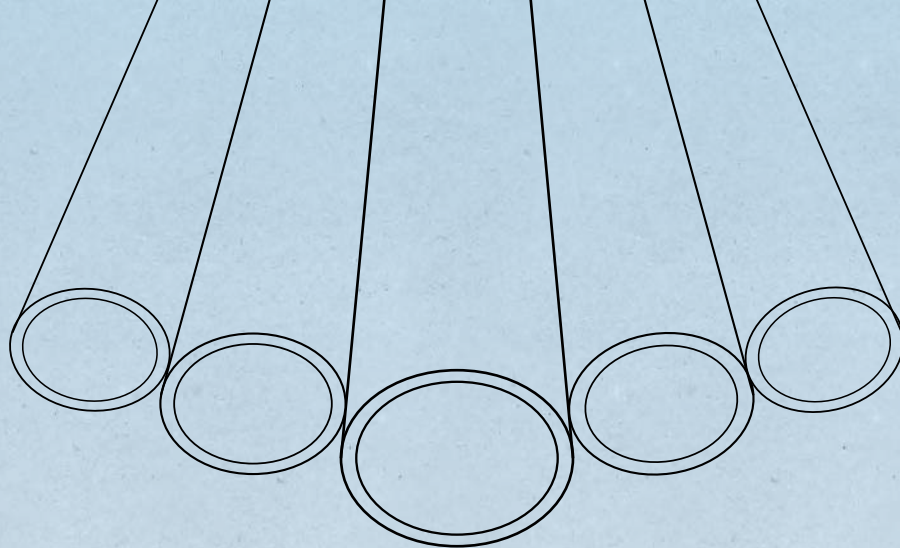
OUR CLIENTS

Sector : Pharmaceutical

					
Application Multiple	Application Multiple	Application Cooling Tower	Application Multiple	Application Cooling Tower	Application Multiple
					
Application Multiple	Application Chilled Water Supply	Application Chilled Water Supply	Application Chilled Water Supply	Application Multiple	Application Compressed Air Supply & Cooling Tower
					
Application Multiple	Application Multiple	Application Cooling Tower & Chilled Water Supply	Application Cooling Tower & Chilled Water Supply	Application Cooling Tower & Raw Water Supply	

Sector : Other Clients

					
Application Compressed Air Supply	Application Compressed Air Supply	Application Hot Water Supply	Application Multiple	Application Compressed Air Supply	Application Fire
					
Application Multiple	Application Multiple	Application Chilled Water Supply	Application Multiple	Application Multiple	Application Cooling Tower
					
Application Multiple	Application Multiple	Application Chilled Water Supply	Application Cooling Tower & Compressed Air	Application Multiple	



SHK POLYMERS INDUSTRIES PVT LTD

Reg. Office

"Harikrishna House", Plot No: 139/1,
Phase-I, Opp. Patel Alloy Steel Ltd.
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Gujarat, INDIA

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www.shreeharikrishna.net