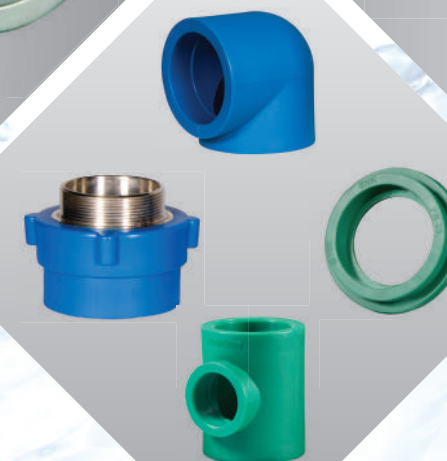




SHK Polymers Industries



- SHK AQUA - PPR-C Triple Layer Pipe & Coil
- SHK THERMO - PPR-FR Composite Pipe: Green
- SHK PNEUMATO - PPR-FR Composite Pneumatic Pipe: Blue
- SHK PPR Fittings from 20 mm to 160 mm



9001 - 2008 Certified Company

SHK[®]
PPR / PPR - FR
Pipes & Fittings



SHK Polymers Industries

www.shreeharikrishna.net

Authorised Distributor / Dealer:



Industrial Piping Solutions

Under One Roof

www.shreeharikrishna.net

Why PPR-C ?

Raw Material Polypropylene Random Copolymer (PPR-C) is a thermoplastic polyolefin having low melt flow rate range, high molecular weight and good flexibility, which is easy to process into pipes & fittings with superior chemical & physical properties. The PPR-C material is recommended for the production of pressure Pipes including portable water supply pipeline, Hot & Cold water pipelines, and also for Chemical Industry application, due to good corrosion resistance, long term pressure resistance, easy installation technique-no leakage.

Manufacture of the Industrial Pipe & Fittings: Polypropylene

We are the manufacturer & supplier of complete range of PPR-C Pipes & Fittings up to 160mm under the brand name“SHK” based at Ahmedabad, Gujarat, India. With our special and R&D we have developed FR Composite pipes used at Industrial sector. SHK Thermo FR Composite pipe in Green Color and SHK Pneumato FR Composite Pneumatic Pipe in Blue color as per DIN 8077/8078 Standards.

A range of size is available: 20mm to 160mm in various Pressure Ratings/ SDR.

WALL THICKNESS CHART of PPR-C PIPES : As per DIN : 8077/8078 and IS: 15801

Nominal Diameter	SDR 11 PN 10		SDR 7.4 PN 16		SDR 6 PN 20	
DN	MIN	MAX	MIN	MAX	MIN	MAX
20 MM	1.90	2.30	2.80	3.30	3.40	4.00
25 MM	2.30	2.80	3.50	4.10	4.20	4.90
32 MM	2.90	3.40	4.40	5.10	5.40	6.20
40 MM	3.70	4.30	5.50	6.30	6.70	7.60
50 MM	4.60	5.30	6.90	7.80	8.30	9.40
63 MM	5.80	6.60	8.60	9.70	10.50	11.80
75 MM	6.80	7.70	10.30	11.60	12.50	14.00
90 MM	8.20	9.30	12.30	13.80	15.00	16.70
110 MM	10.00	11.20	15.10	16.90	18.30	20.40
160 MM	14.60	16.30	21.90	24.30	26.60	29.50

STANDARDS FOR PIPES & FITTINGS

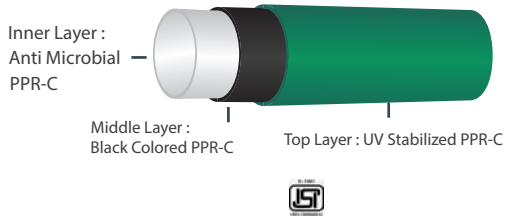
Standards	Fields
DIN 8077	Polypropylene PP pipes, dimensions
DIN 8078	Polypropylene pipes, general quality requirements, tests
DIN 16962	Polypropylene (PP) pipe fittings
DIN 53735	Tests of plastic materials; determination of melt index of thermoplastics
DVS 2203	Tests of thermoplastic pipe fittings for welding
DVS 2207 Part II	Welding of the thermoplastic materials PP type 1, type 2 and type 3 pipes and accessories
DVS 2208 Part I	Machinery and equipment for welding thermoplastics, welding with hot elements
BIS - IS 15801 : 2008	Polypropylene – Random co-polymer pipes for hot and cold water supplies

SHK® Aqua

UV Stabilized PPR-C Top layer : Green Outer Layer with UV stabilizers protect against UV light. Further enhance the light and thermal stability of product.Long term durability and enhance life of the product and maintain the properties of the polymer.

Black Colored PPR-C Middle Layer : Good resistance to UV rays.

Anti-microbial PPR-C Inner Layer : Prevent against the growth of Bacterial/Microbes/Algae etc and preserves the pipe from them.



Fields of Application

- Potable Water Pipeline Network - Hot & Cold water Pipeline
- Residential Building, Hospitals, Hotels, Office & School Building, Ship Buildings etc.
- Rain Water Utilization & Swimming Pool Facilities
- Sanitary & Clean Water at Water purifying Pipelines
- Agriculture & Horticulture Pipeline System

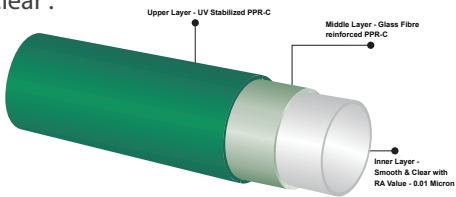
SHK® Therm

Thermal PPR-FR Pipes & Fittings

Upper Layer - UV Stabilized : Green or Blue Outer Layer with UV light. Further enhance the light and thermal stability of product. Long term durability and enhance life of the product and maintain the properties of the polymer.

Middle layer - Glass Fibre Reinforcement : Due to specific design - Composite Glass Fiber Reinforcement leads to High Resistance against Thermal Expansion, High Impact, Very Low Sagging.

Inner Layer - Smooth & Clear : Smooth Inner surface leading to good quality flow, Very High Abrasion resistance and Rust Free piping.



Fields of Application

- Industrial Pipeline System for Fluids like -Strong Acids, Alkaline Solutions, Effluent, Sewage Disposal
- For Industries like Dyes & Intermediate Plants, Food, Dairy & Pharmacy, Textile, Sugar, Peppermills, & other Chemical industries
- Floor, Wall, Radiator Heating System and Chilled Water Pipeline at Refrigerant Plants

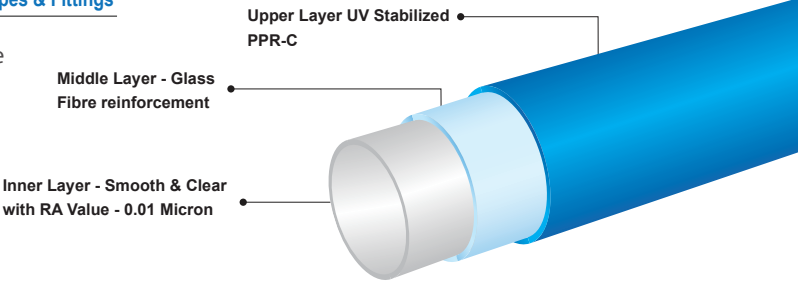
SHK® Pneumat

Triple Layer PPR-C Pipes & Fittings

With RA Value 0.01 Micron gives negligible friction loss in the pipeline C Value 150 gives Smoother and higher flow in the Pipeline

Fields of Application

- Conveying Compressed Air Pressure Services instead of GI Pipes or Aluminium Pipes
- Compressed Air
 - Instrument Air
 - Vacuum Air
 - Nitrogen Air



Advantage and Special Features: SHK PPR-C Pipes

- Excellent Chemical Resistance, Strong & UV Stabilized
- Smooth Inner Surface, Low Pressure Drop
- No Rust, No Scaling & Long Lasting
- Resistance to Abrasion & Corrosion
- Hygienic & Non-Toxic, Anti-Fungal
- Light Weight & No Maintenance
- Easy installation and Handling, Leak Proof
- Tolerate High Pressure & Wide Temperature Range
- Low Thermal Conductivity
- Long Service Life & Competitively Priced
- Low Laying Time & Cost

Special Feature: SHK PPR-C FR Composite Pipes Green & Blue

- Available in Green & Blue color
- Non Corrosive, High Impact Resistance Strength, Temp Resistance up to 95 degree
- Leak Proof Due to Socket Welding System and Maintenance Free
- Prevent Air Loss, Friction Loss and Leakage. Excellent Wear Resistance.
- Energy Saving – Very Low Friction & Pressure Drop due to Smooth Inner Surface, Which reduces the Energy Consumption
- Reduced Line Sagging due to Specific Middle Layer Design of Composite FR Layer
- Hot & Cold Air Application up to 20 KG/cm2
- Replacement of Metal Pipes and Cost Effective.