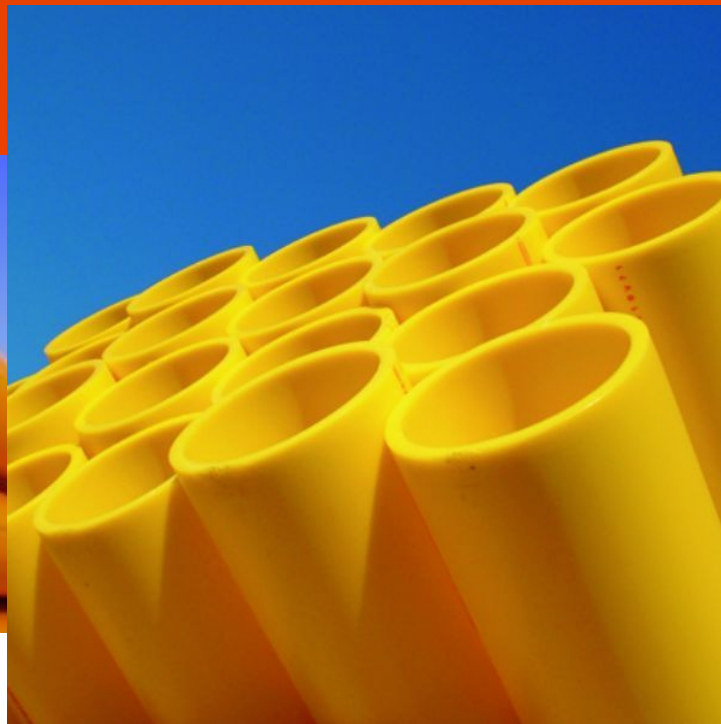
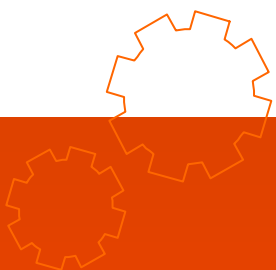


# PE Gas Pipes

Meets requirements of **IS14885 & IS4437**

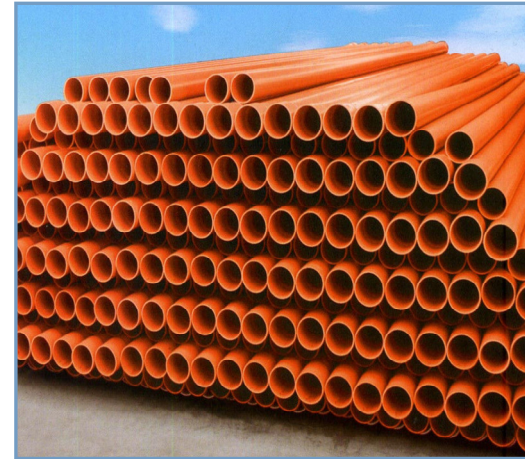


***Product Catalogue***



## FEATURES AND PHYSICAL PROPERTIES

- Pipes available in coils and 12m lengths
- Resistant to corrosion and chemicals
- High service life
- Highly resistant to slow crack growth
- Light weight
- Easy installation
- Low handling cost
- Meets standard requirements of IS: 14885 & ISO: 4437 certified



SANGIR is THE FIRST COMPANY IN INDIA TO MANUFACTURE PIPES FOR GAS APPLICATION IN SIZES from 50mm (2") to 560mm ( 22") IN SDR 11 as per ASTM standards.

Properties	Test Method	Unit	Range Value
Density at 27°C	IS 14885	Kg/m <sup>3</sup>	≥ 930
Melt Flow Index (at 190°C, 5kgf)	IS 14885	g/10 min	± 20% of value nominated by R.M. manufacturer
Oxidation Induction Time (at 200°C) (Thermal stability)	IS 14885	Min	≥ 20
Tensile Strength at yield (minimum)	IS 14885	Mpa	15
Elongation at break	IS 14885	%	≥ 350
Hydraulic Characteristics	IS 14885	Neither leak nor burst	Passed
Heat Reversion Test (110°C)	IS 14885	%	Not exceeding 3%
Pigment Dispersion	IS 14885		≤ 3
Surface finish	IS 14885	Both internal and external should be smooth and clean	Satisfactory

N.B.: Technical data refers to average values. The information provided above is based on the values measured in our laboratory as well as independent laboratories. The quoted values are based on specific resin properties.

Entire range of **Electrofusion Fittings** like Coupler, Tee, Elbow, Branch Saddle, Reducer, End Cap, Transition Coupler, etc. also available on request , especially required for City Gas Distribution Pipeline, Water Supply Project and Special Application Projects.



## DIMENSION DETAILS (As per IS: 14885 & ISO: 4437)

Nominal Outside diameter, mm	Minimum Wall Thickness ( $e_{min}$ ), mm			
	SDR 17.6	SDR 13.6	SDR 11.0	SDR 9
16	2.3	2.3	3.0	3.0
20	2.3	2.3	3.0	3.0
25	2.3	2.3	3.0	3.0
32	2.3	2.3	3.0	3.6
40	2.3	3.0	3.7	4.5
50	2.9	3.7	4.6	5.6
63	3.6	4.7	5.8	7.1
75	4.3	5.5	6.8	8.4
90	5.2	6.6	8.2	10.1
110	6.3	8.1	10.0	12.3
125	7.1	9.2	11.4	14.0
140	8.0	10.3	12.7	15.7
160	9.1	11.8	14.6	17.9
180	10.3	13.3	16.4	20.1
200	11.4	14.7	18.2	22.4
225	12.8	16.6	20.5	25.1
250	14.2	18.4	22.7	27.9
280	16.0	20.6	25.4	31.3
315	17.9	23.2	28.6	35.2

## JOINTING DETAILS

### Butt Fusion Welding

The pipe ends to be joined are brought together in a dedicated butt fusion machine. The end faces are squared up by smoothing them with a mechanical trimmer, then heated with thermostatically controlled non-stick heater plate. When molten, the faces are pushed together and allowed to cool.



### Electro Fusion Welding

This process involves an electrically conducting implant being incorporated into the socket and / or fitting to be jointed to the pipe. A high electric current is applied via a power source causing resistive heating which melts and fuses materials. **This is the most adopted welding procedure by Gas distribution companies.**



Sangir is a leading manufacturer of Advanced Industrial Piping and Sheeting Systems in Engineering Thermoplastics of Kynar® PVDF, PPH, HDPE, PS since 1982. Sangir exports to over 25 countries worldwide in 4 continents and continues to expand and innovate for a brighter tomorrow.

For detailed information on Gas Pipes or Sangir products, visit [www.sangir.com](http://www.sangir.com),

call on +91 22 28717800 or email at [sales@sangir.in](mailto:sales@sangir.in) / [info@sangir.in](mailto:info@sangir.in)

### **Corporate Office:**

Sangir Plastics Pvt. Ltd.

Sangir House, 3rd Floor, Rajhans Paradise, Bangur Nagar, Goregaon (W), Mumbai - 400104, INDIA

Tel: +91 22 2871 7800 | 2872 4023 Fax: 2874 1794 [www.sangir.com](http://www.sangir.com) email: [sales@sangir.com](mailto:sales@sangir.com)

### **Manufacturing Unit:**

Survey 146/P2 Behind Raymond Ltd., NH8 Western Express Highway,  
Motiwada, Taluka Pardi, Vapi, Gujarat - 396125. INDIA

**Disclaimer/TM information:** SANGIR is a registered trademark of Sangir Plastics Pvt. Ltd. Information contained in this document is the property of Sangir Plastics Pvt. Ltd. Any unauthorized use of this information is prohibited. Customers and other users should make their own independent determination that the product is suitable for the intended use. They should also ensure that they can use the Sangir products safely and legally. This document does not constitute a warranty, express or implied, including a warranty of merchant ability, or fitness for a particular purpose. No one is authorized to make such warranties or assume any liabilities on behalf of Sangir except in a writing signed by an authorized Sangir employee. Unless otherwise agreed in writing, the exclusive remedy for all claims is replacement of the product or refund of the purchase price at Sangir's option, and in no event shall Sangir be liable for special, consequential, incidental, punitive or exemplary charges.



# Sangir Plastics

## Pipes, Sheets & Floating Systems

[www.sangir.com](http://www.sangir.com)