PP
PIPING SYSTEMS

Chemical Resistant

Thermal Resistant

Easy Installation

Smooth inner wall

Light Weight

Elastic

Impact Resistant

Crack Resistant

Non Toxic

Polypropylene (PP) is a thermoplastic from the polyolefin group. Sangir Pipes are made from semi-rigid, translucent polymer with good toughness and weather resistance properties, low water absorption and is easily molded to desired shapes. PP is a largely-non-polar, partially crystalline thermoplastic with a crystallinity of 60% to 70% and a density of 0.90 to 0.91 g/cm^3 which is amongst the lowest for all plastics.

It is generally available in three advanced forms:

- PP- Homopolymer (PP-H)
- PP- Copolymer (PP-C)
- PP- Random Copolymer (PP-R)

Technical Information

			PP-C	PP-H	PP-R	PPH2222
Specific gravity (p)	ISO 1183	g/cm^3	0.91	0.90	0.909	0.912
Max. Permissible service temp		°C	0 to 75	5 to 100	5 to 100	5 to 100
Tensile strength at yield (σS)	ISO 527	Mpa	26	31	26.1	26
Elongation at break (εR)	ISO 527	%	-	≥400	≥400	≥400
Impact strength (an)	ISO 179	kJ/m^2	No Break	No Break	No Break	No Break
Modulus of elasticity (Et)	ISO 527	Mpa	1200	1400	1200	1200
Coef. of linear therm. expansion (α)	DIN 53752	K^{-1} X 10^{-4}	1.5	1.5	1.5	1.5
Vicat Softening Temp	ISO 306	°C	148	150	131.3	148
Shore Hardness	ISO868	Shore D	67	70	60	67

PIPING

PP-H

Range : 20 - 630 mm
PN 2.5 to 16
SDR 7.4 to 41
Standards : DIN 8077

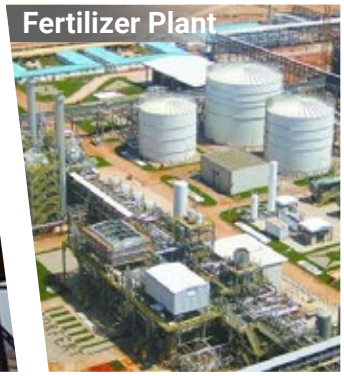
PP-C/R

Range : 20 - 630 mm
PN 2.5 to 16
SDR 7.4 to 41
Standards : DIN 8077

PP-Liner

Range : 20 - 315 mm
Standards : Custom Size

Applications



Sulfuric & Hydrochloric Acid Service | Phosphoric Acid Service | Cold-Roll Mills | Acid Regeneration Plants | Ferrous & Non-Ferrous Metal Plants | Battery Industry | PV Cell & Semi-Conductor Industry | Fertilizer Plants | Chemicals & Process Industries | Pharmaceuticals & Bulk Drug Industries | Chemicals Dozing | RO Reject Lines | Desalination | Sugar Mills & Distilleries.

FITTINGS

Socket Fusion

Type : Moulded
Range : 20 - 110 mm
Standards : DIN16962

Butt Fusion

Type : Moulded
Range : 20 - 400 mm
Standards : DIN16962

Butt Fusion

Type : Fabricated
Range : 110 - 630 mm
Standards : DIN16962