



PE

PIPING SYSTEMS

Polyethylene Pipes



PE

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Chemical Resistant



Thermal Resistant



Weather Resistant



Smooth inner wall



Light Weight



Elastic



Impact Resistant



Thermally Insulating



Non Toxic

Polyethylene (PE) is a sturdy thermoplastic material produced from the polymerization of ethylene and is widely used in water, slurry, and gas applications. Sangir PE pipes are manufactured by extrusion in sizes ranging from 16mm to 1200mm. PE is available in rolled coils of various lengths (up to 125mm OD) or in straight lengths up to 12mtrs. PE pipe is available in a wide variety of wall thicknesses but is primarily based on Controlled Outside Diameter (OD). A promising material, it has a design life extending up to 100 years for some applications.

PE pipe is available in many forms and colors such as the following:

- Single extrusion colored or black pipe
- Black pipe with coextruded color Stripe
- Black or natural pipe with one or more coextruded colored layers

Technical Information

			HDPE	MDPE	LDPE	PEUHMW
Specific gravity (ρ)	ISO 1183	g/cm ³	0.95	0.938	0.925	0.93
Max. Permissible service temp		°C	-50 to 90	-50 to 85	-50 to 60	-50 to 90
Tensile strength at yield (σ_S)	ISO 527	Mpa	27	20	11	17
Elongation at break (ϵ_R)	ISO 527	%	≥ 700	≥ 600	≥ 600	≥ 50
Impact strength (a_n)	ISO 179	kJ/m ²	No Break	No Break	No Break	No Break
Flexural strength (σ_B 3,5%)	ISO 178	Mpa	22	40	80	27
Modulus of elasticity (E_t)	ISO 527	Mpa	1150	760	260	680
Coef. of linear therm. expansion (α)	DIN 53752	K ⁻¹ X 10 ⁻⁴	1.5	1.5	1.4	2
Vicat Softening Temp	ISO 306		80	80	94	80

PIPING



HDPE

Range :
20 - 1200mm | PN 2.5 -16
Standards :
ISO 4427 | EN 12201
IS 4984 | IS14333
ASNZ 4130 | ASTM 2619/3035



MDPE

Range :
20 - 800mm | PN 2.5 -16
Standards :
ISO 4427



GAS

Range :
16 - 800mm | PN 2.5 -10
Standards :
ASTM 2513
ISO 4437
IS 14885

Applications



HDPE: Water | Waste-water | Effluents | CBM GAS | Shale Gas | Edible Oil | Phosphoric Acid | Fire-Water
 Sea-water Intake & Outfall | Desalination | Slurry | Dredging | De-watering | Cooling Water

MDPE Blue: Drinking Water Distribution & House Service Connections

MDPE/PE-GAS: City-gas Distribution

FITTINGS



Type : Moulded
Range :
 20 - 225 mm | PN 2.5 -16
Standards :
 ISO 4427 - 3 | DIN 16963
 IS 8008 | ANSI 16.5 B



Type : Fabricated
Range :
 160 - 1200 mm | PN 2.5 -16
Standards :
 ISO 4427 - 3 | DIN 16963
 IS 8008 | ANSI 16.5 B



Type : Electrofusion
Range :
 20 - 630 mm | PN 6 -16
Standards :
 EN1555
 IS17885



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