



INTEGRAL COMMODITIES SA

Bimodal HDPE for pipe extrusion (INPIPE 100)

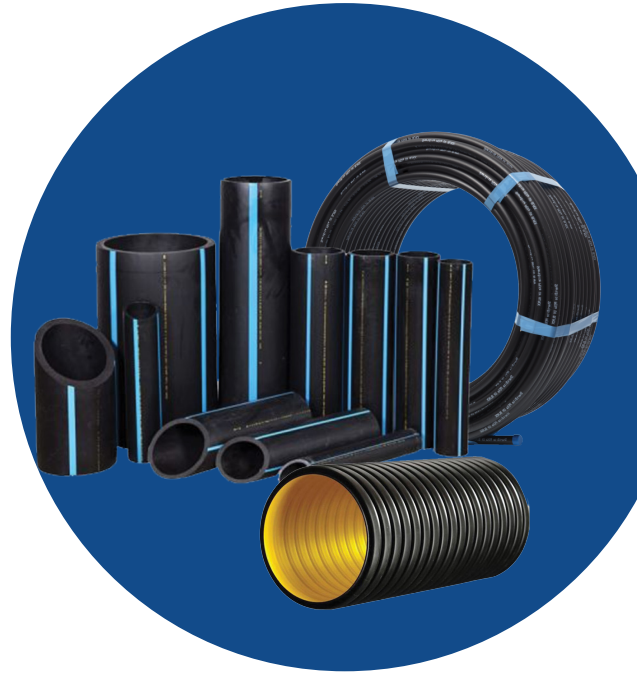
Specification of Bimodal HDPE (INPIPE 100)

INPIPE 100 is a carbon black, high strength polyethylene polymer for pipe extrusion.

INPIPE 100 is classified as PE 100 according to ISO 12162, based on the analysis of ISO 9080. Compound PE 100s are commonly used for transporting water and gas, as described in ISO 4427 and 4437, respectively.

PROPERTIES:

- Exceptional external stress cracking resistance
- High level of rigidity
- High impact strength (Rapid crack propagation)
- Good technological characteristics



Typical physical properties

Properties	Typical value	Unit.	Test method
Melt flow rate (5 kg load)	0.3	g/10min	ISO 1133
Density	959	kg/m ³	ISO 1872/1
Tensile strength at yield strength (50mm / min)	24	MPa	ISO 527-2
Tensile modulus (1mm / min)	1100	MPa	ISO 527-2
Elongation at break	> 300	%	ISO 527-2
Heat resistance according to Vika (1 kg)	128	°C	ISO 306
Temperature tests for breakdown voltage, resistance to cracking at voltage (Φ50 at 50 ° C, 100% concentration)	> 1000	hour	ASTM D1693

+971 56 478 02 02

office@integraltrade.ch

UAE, Dubai, DMCC area, Cluster I, Platinum Tower Office 3905