

Kiyanly Refinery (Turkmenistan)

INPIPE 100

Inpipe 100 is a high-strength polyethylene for pipe extrusion.

Inpipe 100 is classified as PE 100 according to ISO 12162, based on the analysis of ISO 9080.

Composite PE 100 is typically used to transport water and gas, as described in ISO 4427 and 4437, respectively.

Inpipe 100 has the following properties.

- Exceptional stress cracking resistance
- High hardness
- High impact strength (fast crack propagation)
- Good technological characteristics

Typical physical properties

No	Description of Index	Rate
1	Volume speed of fluidity (5 kg), g/10 min	0,3
2	Density, kg/cm ³	959
3	Strength at a stretching in a fluidity limit (50mm/min), N/mm ² , not less than	24
4	Elongation at break, %, not less than	>300
5	Tensile modulus (1mm/min), N/mm ²	1100
6	Softening temperature by Vick (1kr), °C, not less than	128
7	Tests according to the GRUGSRUTSCHR method for resistance to cracking under stress (Resistance to cracking under the influence of the environment F50 at 50 °C, at 100% concentration) hour, not less than	>1000