

# HARD PE GAS-PIPES

## Fields of application:

PARTIUM'70 Rt. manufactures the full range of HD - PE pressure pipes for transporting inflammable gases. The recommended fields of application are the following:

- establishment of main and distribution gas-pipe networks
- pipe lines for natural gases containing carbon-dioxide
- pipe lines for supplying bio-gases

The life time of a professionally constructed HD-PE pipe line placed under the ground, with operational temperatures below 20°C and the operational pressure level being in accordance with the pressure level of the product, is minimum 100 years.

## Standards, certificates:

- EN 1555

## Make-up:

Gas-pipes are manufactured from high-density PE(HD-PE) raw materials with strenght features of PE 80 (MRS-8) and PE 100 (MRS-10).

The gas-pipes with diameters of Ø 20-125 mm are manufactured in coils, whereas those with diameters above Ø 110 can be produced in lengths (12/15/18 m). The colour of the gas-pipes is usually black, with four longitudinal yellow stripes on the surface of the pipes (the identification marking is also yellow).

## Technical characteristics of application:

- excellent strenght features
- chemically stable
- easy to weld and work with
- resist corrosion
- shock absorbent and cold resistant up to -40 °C
- withhold diffusion of gas
- easy to install

Gas-pipe networks can be constructed by welding and/or by using standard fittings which can be purchased together with the pipes.

## Transportation, storage:

External mechanical damage is to be avoided when transporting or storing the pipes. Large quantities of lengths are transported in unit piles. Black pipes can be stored in the open air without any restriction up to 18 months (yellow pipes up to 6 months). After longer periods of storage, the utilisation is subject to quality tests.

D <sub>a</sub> (mm)	P6, SDR 17,6		P10, SDR 11		Coil length (m)	Unit pile (pcs)
	e <sub>min</sub> (mm)	m (kg/m)	e <sub>min</sub> (mm)	m (kg/m)		
20	-	-	3.0	0.166	300	-
25	-	-	3.0	0.177	300	-
32	-	-	3.0	0.277	300	-
40	-	-	3.7	0.428	200	-
63	3.6	0.684	5.8	1.05	200	-
90	5.2	1.38	8.2	2.11	100	-
110	6.3	2.07	10.0	3.13	100	-
160	9.1	4.33	14.6	6.63	-	18
200	11.4	6.75	18.2	10.3	-	15
250	14.2	10.5	22.7	16.1	-	8
315	17.9	16.6	28.6	25.6	-	6

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