LDPE pipe

In addition to HDPE pipe, there is also a wide range of possibilities with LDPE pipe. LDPE has a slightly lower density and is therefore more flexible in use. LDPE is used for smaller diameters with different maximum working pressures.

GENERAL APPLICATIONS

LDPE has a wide array of fields of application in irrigation systems cultivation, mat and underfloor heating or other transport pipelines. The pipe is also used as protective conduit for cables or PVC pipes or as a driver to support moving covers.

GENERAL CHARACTERISTICS

- LDPE pipe: diameters 5 to 63 mm
- Resistant to solid and liquid fertilisers and chemicals used in horticulture
- Sufficiently flexible and corrosion-resistant

DRIPLINE

A specific LDPE line is available for the installation of drippers, sprinklers and PE lines. This dripline is made from a special composition of raw materials giving it the ideal properties for use as a dripline. The line can be punched for the installation of drippers or sprinklers. Before delivery, driplines undergo a stress cracking test according to standard ASAE S435, a tensile test according to NEN-EN 6299-1 and a pressure test according to NEN-EN 921.

Driplines are available in both black and black/white. Black/white line reflects the majority of the incident light, thus reducing heating of the line due to sunlight, and hence the heating of the irrigation water. Black/white PE line is produced to the same standard as black PE pipe. Driplines can be supplied cut to length. Where possible, several lengths are installed on a reel with a length of 'blind' line in between the lengths for simple installation on the distribution lines. Driplines can also be supplied as whole coils.

DRIPLINE APPLICATION

In dripper, sprinkler or other irrigation installations where a punchable line is required. For use with i.a. Kameleon(-High), Cobra, CNL, Bubbler, Capillary, Capinet and Woodpecker drippers. In irrigation systems, this line is used where sprinklers are fitted using barb/superstart connectors (e.g. DAN Bridgeless and Mamkad sprinklers).

DRIPLINE CHARACTERISTICS

- Diameters 16 to 32 mm, black/white and black
- Made from a special composition of raw materials for application as dripline with good sealing effect
- Possibility of automatic punching and/or installation of drippers

TECHNICAL DATA

	General	Dripline
PE grade	: various grades	: LDPE
Max. working pressure	: up to 8 bar	: 4 bar
Standards	: tested according to working standard	: tested according to working standard
Diameter	: 5 to 63 mm	: 16 to 32 mm
Appearance	: black pipe (imprinted with diameter and wall thickness)	: white or black pipe (imprinted with 'Irrigation 4 bar')

Formula for SDR value
The SDR value can be calculated from the outside diameter and the wall thickness using the formula below.

Ø Outside diameter / Wall thickness = SDR

The pressure class can then be found in the table

SDR and pressure classes*

SDR	PN (bar)
9	6,0
11	4,7
13,6	3,8
17	3,0
21	2,0

*According KIWA BRL-K17105, pag.19, item 4.4.4 en 4.5

INSTALLATION & MAINTENANCE

Note: Never use detergents during assembly and use with PE material.