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TECHNICAL DATA SHEET

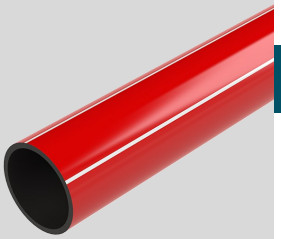
EVODUCT RHDPE

Cable protection pipes

Conformity:
LVS EN 50626-2
DIN 8074/8075
GW 321

PRODUCT DESCRIPTION

EVODUCT RHDPE cable protection pipes, with red outer layer are meant for underground installations. Pipes outer layer is produced using PE100 material for safe electro fusion welding and recycled high density polyethylene (RHDPE) in inner layer. Special manufacturing processes ensure high compression and impact strength properties. The pipe has a smooth inner and outer surface.
Material: CO-EX produced outer layer from virgin PE100 material (~10% of wall thickness), interlayer made from RHDPE (recycled high density polyethylene, ~ 90% of wall thickness).



APPLICATION AREA

EVODUCT RHDPE pipes are made of a rigid material and designed so that they can withstand loads caused by soil, concrete and traffic, pipes can be used to protect and insulate underground cables.
They are especially suitable for use in systems requiring a high compression strength, e.g. under roads, squares, etc. Pipes can be connected with double sockets, using electro fusion welding or contact welding, In case of contact welding not all connections can succeed due to the specifics of RHDPE.
Customers who are willing and able to control the risks that are related to RHDPE materials, can use these pipes also using trenchless installation methods, using horizontal drilling installation.



PRODUKTA FIZIKĀLIE PARAMETRI

Nominal diameter, mm	Pipe wall thickness according to SDR, mm			Length, m
	17	13.6	11	
32	-	-	2.9	100-2000
40	-	3.0	-	100-1000
50	3.0	-	-	100-800
63	3.6	-	-	100-600
75	4.3	-	-	100-300
90	5.1	-	-	100-200
110	6.3	-	-	12/13.4/20/50/100
125	7.1	-	-	6/12/13.4/20
160	9.1	-	-	12/13.4/20
180	10.2	-	-	6/12/13.4/20
200	11.4	-	-	6/12/13.4/20
225	12.8	-	-	6/12/13.4/20
250	14.2	-	-	6/12/13.4/20
315	17.9	-	-	6/12/13.4/20
400	22.7	-	-	6/12/13.4/20

Nominal ring stiffness:
1250N
Impact resistance:
N (normal)
Material:
CO-EX mix RHDPE

Open product

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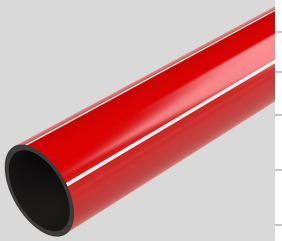



PRODUCT PARAMETERS

Parametri	Raksturlielumi	Atbilstība standartiem
Material	10% of the wall thickness consists of PE100+, while 90% of the wall thickness consists of an interlayer made from RHDPE.	
Temperature range, min/max, °C	–25 °C .. +90 °C	
Combustion	Combustible	EN 60695-11-2:2017
Impact resistance class	N (Normal)	EN 50626-2
Nominal ring stiffness class (SN)	SN16	EN ISO 9969:2016
Performance Time (PT)	PT 50	EN ISO 1167-1:2006 EN ISO 1167-2:2006
Short-term pressure resistance	2h/12bar	EN ISO 1167-1:2006 EN ISO 1167-2:2006
Performance at low temperatures	–10 °C	EN ISO 11173:2017
IP protection rating	IP68*	EN 50626-2
Cable installation by blowing	Air pressure range: 0.8–1.2 MPa Air flow rate range: 10–12 m^3/min	

*6 - protection against ingress of solid foreign objects
8 - protection against ingress of water

EXAMPLE OF PIPE MARKING

Aspect	Marking
Compliance with the standard	EN 50626-2
Manufacturer	EVOPIPES
Product designation	EVODUCT RHDPE
Pipe size, mm	50
Standard Dimension Ratio (SDR)	SDR 17
Polyethylene (PE) material classification	CO-EX HDPE
Performance Time (PT)	PT50
Impact resistance class	N
Nominal ring stiffness class (SN), kN/m^2	SN8
Date of manufacture	2h/12bar
Short-term pressure resistance test performed	dd/mm/gg

Nominal ring stiffness:
1250N
Impact resistance:
N (normal)
Material:
CO-EX mix RHDPE

Open product