

vinidurit UKC

PVC pipes for non-pressure
undreground sewerage

According to EN 1401-1:2000



MA **PI**
PI **PE**

vinidurit UKC

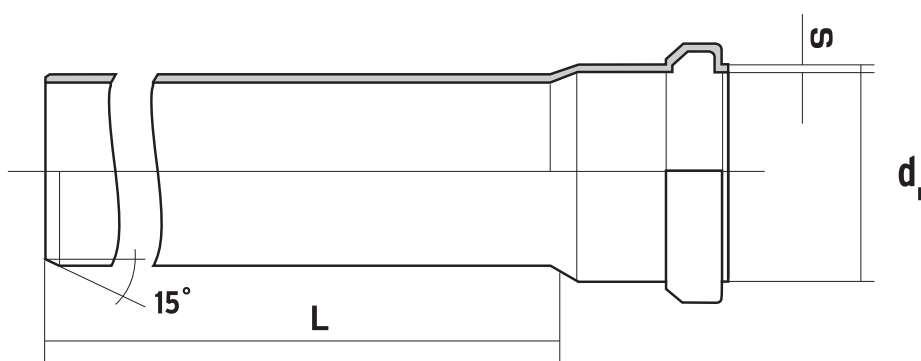
PVC pipes
for non-pressure
undreground sewerage

According to EN 1402:2000

✓ PURPOSE

Vinidurit UKC pipes are made according to EN 1401:2000 and are used for plastic non-pressure pipe systems for drainage and sewerage outside builddin constructions (pipe series SN2, SN 4 i SN 8) and inside builddin construction (SN 4 and SN 8) for media temperature up to 60°C constantly.

While using UKC pipes for drainage of polluted industrial water and chemichals, the chemical presistence, according to ISO / TR 10358:2004, should be taken care of.



Denominaing outer diameter d (mm)	SN 2* SDR 51		SN 4** SDR 41		SN 8** SDR 34	
	wall thickness s (mm)	kg/m	wall thickness s (mm)	kg/m	wall thickness s (mm)	kg/m
110	-	-	3,2	1,64	3,2	1,64
125	-	-	3,2	1,87	3,7	2,13
160	3,2	2,41	4,0	2,94	4,7	3,44
200	3,9	3,62	4,9	4,50	5,9	5,37
250	4,9	5,65	6,2	7,12	7,3	8,31
315	6,2	9,02	7,7	11,1	9,2	13,2
400	7,9	14,5	9,8	17,8	11,7	21,1
500	9,8	22,4	12,3	27,9	14,6	32,9

Interpreter: * only for outside building constructions use
** for laying inside and outside builddin constructions

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+ BENEFITS

- chemically very persistent (see ISO/TR 10358:2004)
- non-incrusting, i.e. after long-term use inner diameter of pipe is unmodified
- very smooth walls and low coefficient of hydraulic resistance
- assembling is very easy and simple (assembling of pipes and fittings with plug-in socket, syntetich rubber seal type BL as defined by norm EN 681-1:2003 enables joint tightness)
- low weight and high mechanical firmness make transport, manipulation and assembling easier
- low thermal conductivity coefficient enables shallower placing into narrower canal which reduce costs
- placing UKC pipes is very simple, and their elasticity allows laying into canal that is not completely straight
- corrosion resistant, without protection easy to be laid down and installed in water, wet ground (acid or alkaline) or concrete
- expected lifetime of PVC pipes at least 50 years

📦 PACKAGING AND DELIVERY

Pipes' installing length is 1,2 i 5 m. Vinidurit UKC pipes are packed with pipe holders and / or wooden frames in suitable packages.

📏 PIPE MARKING

Longitudinal:
Norm mark (HRN EN 1401-1), purpose mark (U), producer (MAPI PIPE), producer mark (UKC+M), diameter x wall thickness (dxs), material (PVC-EKO), marking of pipemargin stiffness (SN), length in cm, date, hour, line No. (L1)

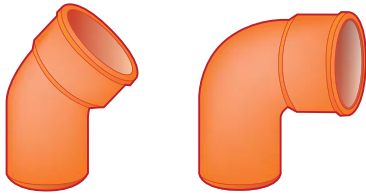
🎨 PIPE AND FITTING COLOR

Color tone in accordance with RAL 8023 (red - brown)



**PVC fittings
for non-pressure
undreground sewerage**

According to EN 1401 - 1:2000



Bend URC - KGB

DN	110	125	160	200	250	315	400	500
45°	+	+	+	+	+	+	+	+
87°30'	+	+	+	+	+	+	+	+



Slip coupler UKS KGU

ø	110	125	160	200	250	315	400	500
		+	+	+	+	+	+	+



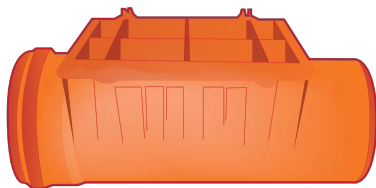
T - piece URG - KGEA - 45° URG - KGEA 87°

ø	110	125	160	200	250	315	400	500
110	+	+	+	+	+	+	+	+
125		+	+	+	+	+	+	+
160			+	+	+	+	+	+
200				+	+	+	+	+
250					+	+	+	+
315						+	+	+
400							+	+
500								+



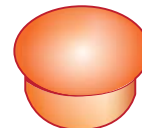
Reducer URRC-KGR

ø	110	125	160	200	250	315	400	500
110		+	+					
125			+	+	+			
160				+	+	+		
200					+	+		
250						+		
315							+	
400								+
500								



Control shaft

ø	110	125	160	200	250	315	400	500
	+	+	+	+	+	+	+	+



Endcap UČ-KGM

ø	110	125	160	200	250	315	400	500
	+	+	+	+	+	+	+	+



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GASKET BL

∅	110	125	160	200	250	315	400	500
	+	+	+	+	+	+	+	+



Physical properties of PVC pipes are listed in table

Characteristic	Norm	Value	Unit
Thickness a 23°	HRN EN ISO 1183-2	1.350-1.460	kg/m ³
MRS	HRN EN ISO 9080	≥25	MPa
Break firmness (strenght)	ISO 6259	≥45	MPa
Faliure strain	ISO 6259	≥80	%
Elasticity module	DIN 53457	3.000-3.600	MPa
Thermal conductivity	DIN 52612	-0,15	W/mK
Linear stretchness coefficient	DIN 53752	6 -80x10 ⁻⁶	K ⁻¹
Longitudinal return at 150°	HRN EN 743	≤5	%
Temperatur softening according to VICAT (5 kg)	HRN EN 727	≥79	°C
Surface electric resistance	DIN 53482	>1.000.000	MΩ
Water absorbing	DIN 8061 caption 4.6	≤40	g/m ²
Burning conduct	NF 055-L3	M1	self-extinguish
Pipemargin stiffness	HRN EN ISO 9969	SDR 51:≥2 SDR 41:≥4 SRD 34:≥8	kN/m ²



FEATURES AND CLASIFICATION OF PP MATERIAL

According to new ISO clasification (**ISO TR 9080, ISO 12162**) PVC pipe materials are sprted by minimal long-term thickness (MRS) which can be calculated by using standard extrapolation method. Minimal long-term thickness for PVC is MRS=25,0 Mpa

Standard dimensions ratio (**SDR**) is defined by term $SDR=d/s$, in which; **d=outer pipe diameter**, **s=pipe wall thickness**.

Pipemargin stiffness (**SN**) is defined by term; $SN(kN/m^2)=EI/dm^3$, in which **E=material elasticity module**, **l=moment of wall inertia ($l=s^3/12$)**, **dm=medium pipe diameter** measured on neutral axle, **s=wall thickness**.



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