

General Information

HDPE pipe standard safety factor for permanent bending for 50 years is 2.0.

HDPE pipe safety factor for short time (temporary bending maximum 3 hours, pipe drawn with continuous speed) is 1.5.

Same figures are relevant for grouted and non grouted pipes.

HDPE pipes should not be temporarily bend below 0°C and at more than 50°C pipe temperature.

Maximum Bending Radii for HDPE pipes SDR 11 and SDR 17

OD [mm]	0°C (32°F)		10°C (50°F)		20°C (68°F)		50°C (122°F)	
	Perm.	Short-term	Perm.	Short-term	Perm.	Short-time	Perm.	Short-term
75	3,80	3,00	2,60	2,10	1,50	1,20	1,40	1,10
90	4,50	3,60	3,20	2,50	1,80	1,40	1,60	1,30
110	5,50	4,40	3,90	3,10	2,20	1,80	2,00	1,60
125	6,30	5,00	4,40	3,50	2,50	2,00	2,30	1,80
140	7,00	5,60	4,90	3,90	2,80	2,20	2,50	2,00
160	8,00	6,40	5,60	4,50	3,20	2,60	2,90	2,30
180	9,00	7,20	6,30	5,00	3,60	2,90	3,20	2,60
200	10,00	8,00	7,00	5,60	4,00	3,20	3,60	2,90
225	11,30	9,00	7,90	6,30	4,50	3,60	4,00	3,20
250	12,50	10,00	8,80	7,00	5,00	4,00	4,50	3,60
280	14,00	11,20	9,80	7,80	5,60	4,50	5,00	4,00
315	15,80	12,60	11,00	8,80	6,30	5,00	5,70	4,60
355	17,70	14,20	12,40	9,90	7,10	5,70	6,40	5,10
400	20,00	16,00	14,00	11,20	8,00	6,40	7,20	5,70

Values given in meter for max. radii.

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Maximum Bending for radii SDR 26

OD	0°C (32°F)		10°C (50°F)		20°C (68°F)		50°C (122°F)	
[mm]	Perm.	Short-term	Perm.	Short-term	Perm.	Short-term	Perm.	Short-term
75	5,60	4,50	3,90	3,20	2,30	1,80	2,00	1,60
90	6,80	5,40	4,70	3,80	2,70	2,20	2,40	1,90
110	8,30	6,60	5,80	4,60	3,30	2,60	3,00	2,40
125	9,40	7,50	6,60	5,30	3,80	3,00	3,40	2,70
140	10,50	8,40	7,40	5,90	4,20	3,40	3,80	3,00
160	12,00	9,60	8,40	6,70	4,80	3,80	4,30	3,40
180	13,50	10,80	9,50	7,60	5,40	4,30	4,90	3,90
200	15,00	12,00	10,50	8,40	6,00	4,80	5,40	4,30
225	16,90	13,50	11,80	9,50	6,80	5,40	6,10	4,90
250	18,80	15,00	13,10	10,50	7,50	6,00	6,80	5,40
280	21,00	16,80	14,70	11,80	8,40	6,70	7,60	6,10
315	23,60	18,90	16,50	13,20	9,50	7,60	8,60	6,90
355	26,60	21,20	18,60	14,90	10,60	8,50	9,60	7,60
400	30,00	24,00	21,00	16,80	12,00	9,60	10,80	8,60

Values given in meter for max. radii.

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Maximum Bending for radii SDR 32

OD	0°C (32°F)		10°C (50°F)		20°C (68°F)		50°C (122°F)	
[mm]	Perm.	Short-time	Perm.	Short-time	Perm.	Short-time	Perm.	Short-time
75	7,50	6,00	5,20	4,20	3,00	2,40	2,70	2,20
90	9,00	7,20	6,30	5,00	3,60	2,90	3,20	2,60
110	11,00	8,80	7,70	6,20	4,40	3,50	4,00	3,20
125	12,50	10,00	8,80	7,00	5,00	4,00	4,50	3,60
140	14,00	11,20	9,80	7,90	5,60	4,50	5,00	4,00
160	16,00	12,80	11,20	9,00	6,40	5,10	5,80	4,60
180	18,00	14,40	12,60	10,10	7,20	5,80	6,50	5,20
200	20,00	16,00	14,00	11,20	8,00	6,40	7,20	5,80
225	22,50	18,00	15,80	12,60	9,00	7,20	8,10	6,50
250	25,00	20,40	17,50	14,00	10,00	8,00	9,00	7,20
280	28,00	22,40	19,60	15,70	11,20	9,00	10,10	8,10
315	31,50	25,20	22,00	17,60	12,60	10,00	11,30	9,00
355	35,50	28,40	24,80	20,00	14,20	11,30	12,70	10,20
400	40,00	32,00	28,00	22,40	16,00	12,80	14,40	11,50

Values given in meter for max. radii