

TECALAN – tubing

Physical characteristics

	in	polyamide 11	polyamide 12
density at +20°C (+68°F)	g / cm ³	1,04	1,02
moisture content at +20°C (+68°F) and 30 – 100% humidity	%	0,5 – 1,9	0,4 – 1,5
specific heat	J / gK	2,44	2,44
thermal conductivity	KJ / m · s · K	1,05	1,05
linear expansion coefficient	1 / K	15 · 10 ⁶	15 · 10 ⁶
melting point	°C	approx. +186	approx. +174

Light resistance

TECALAN black tubing, light stabilised quality „LT“, should be used in applications where tubing is exposed to sunlight and other violet radiation and for automotive use.

Atmospherical influence

TECALAN-tubing absorbs only a minimum of humidity (max. 1,9%). This guarantees a stable dimension without changes in size.

Service temperatures

type	continuous	short time
semi-rigid (hart)	-60°C up to +100°C (-76°F up to +210°F)	up to +130°C (up to +265°F)
flexible (weich)		

Working pressures

The working pressures stated are valid for constant and pulsating pressures at +20°C following DIN 73378.

1 bar = 14.223 psi
+20°C = +68°F

Installation

TECALAN-tubing is less costly to install and maintain than other conventional tubing. To cut TECALAN-tubing we recommend our TECALAN-cutter, part-no. 2.89 08 63.1. This tool cuts TECALAN-tubing rectangular. A deburring is not necessary.

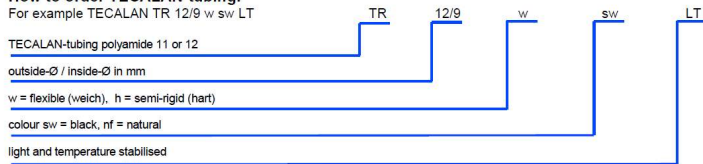


Bending

TECALAN-tubing especially the flexible type can be bent at normal temperatures. The bending radius is measured from the tube axis.

How to order TECALAN-tubing:

For example TECALAN TR 12/9 w sw LT



TECALAN-tubing polyamide 11 or 12

outside-Ø / inside-Ø in mm

w = flexible (weich), h = semi-rigid (hart)

colour sw = black, nf = natural

light and temperature stabilised

Always mention code and part-no. when ordering.

code: TECALAN >flexible<	dimensions	WP at 20°C	bending radius	weight	pack. unit roll of	part-no.
	mm	bar / psi	mm	kg/100 m	m	
TR 3.15 / 2 w nf	3.15 x 0.575	30 / 440	15	0.50	500	2.477210.1
TR 3.15 / 2 w blau	3.15 x 0.575	30 / 440	15	0.50	500	2.680300.5
TR 3.15 / 2 w grün	3.15 x 0.575	30 / 440	15	0.50	500	2.680300.6
TR 4 / 2 w nf	4 x 1	45 / 625	20	1.10	500	2.477311.1
TR 4 / 2 w sw LT	4 x 1	45 / 625	20	1.10	500	2.472311.8
TR 4 / 2.5 w nf	4 x 0.75	31 / 440	20	0.85	500	2.477321.1
TR 4 / 2.7 w nf	4 x 0.65	26 / 370	20	0.75	500	2.462341.1
TR 5 / 3 w nf	5 x 1	34 / 485	25	1.35	200	2.462411.1
TR 6 / 3 w nf	6 x 1.5	45 / 625	30	2.25	200	2.477511.8
TR 6 / 3 w sw LT	6 x 1.5	45 / 625	30	2.25	200	2.477511.8
TR 6 / 4 w nf	6 x 1	27 / 385	30	1.70	200	2.477531.1
TR 6 / 4 w sw	6 x 1	27 / 385	30	1.70	200	2.477531.8
TR 6 / 4 w gelb	6 x 1	27 / 385	30	1.70	200	2.472531.7
TR 6 / 4 w grün	6 x 1	27 / 385	30	1.70	200	2.472531.6
TR 6 / 4 w blau	6 x 1	27 / 385	30	1.70	200	2.477531.5
TR 6 / 4 w rot	6 x 1	27 / 385	30	1.70	200	2.472531.3
TR 8 / 4 w nf	8 x 2	45 / 625	40	4.00	200	2.477711.1
TR 8 / 4 w sw LT	8 x 2	45 / 625	40	4.00	200	2.472711.8
TR 8 / 5 w nf	8 x 1.5	31 / 440	40	3.20	200	2.477731.1
TR 8 / 5 w sw LT	8 x 1.5	31 / 440	40	3.20	200	2.477731.8
TR 8 / 6 w nf	8 x 1	19 / 270	40	2.40	200	2.477751.1
TR 8 / 6 w sw LT	8 x 1	19 / 270	40	2.40	200	2.477751.8
TR 9 / 6 w sw LT	9 x 1.5	27 / 385	45	3.80	200	2.477811.8
TR 10 / 6 w nf	10 x 2	34 / 485	50	5.50	200	2.477911.1
TR 10 / 6 w sw LT	10 x 2	34 / 485	50	5.50	200	2.477911.8
TR 10 / 7.5 w sw LT	10 x 1.25	19 / 270	60	3.60	200	2.477921.8
TR 10 / 8 w nf	10 x 1	15 / 200	60	3.00	200	2.477931.1
TR 10 / 8 w sw LT	10 x 1	15 / 200	60	3.00	200	2.477931.8
TR 12 / 8 w nf	12 x 2	27 / 385	60	6.80	200	2.478111.1
TR 12 / 8 w sw LT	12 x 2	27 / 385	60	6.80	200	2.478111.8
TR 12 / 9 w nf	12 x 1.5	19 / 270	60	5.30	200	2.478121.1
TR 12 / 9 w sw LT	12 x 1.5	19 / 270	60	5.30	200	2.478121.8
TR 12 / 10 w nf	12 x 1	12 / 170	85	3.80	200	2.478131.1
TR 12.5 / 10 w nf	12.5 x 1.25	15 / 200	75	4.70	200	2.463151.1
TR 15 / 10 w nf	15 x 2.5	26 / 370	75	11.00	100	2.478311.1
TR 15 / 12 w nf	15 x 1.5	15 / 200	90	7.00	100	2.478331.1
TR 15 / 12 w sw LT	15 x 1.5	15 / 200	90	7.00	100	2.478331.8
TR 16 / 12 w sw LT	16 x 2	19 / 270	95	9.30	100	2.473411.8
TR 16 / 12.5 w nf	16 x 1.75	16 / 225	95	8.50	100	2.463421.1
TR 18 / 14 w nf	18 x 2	16 / 225	100	11.00	100	2.478511.1
TR 18 / 14 w sw LT	18 x 2	16 / 225	100	11.00	100	2.478511.8
TR 22 / 18 w nf	22 x 2	13 / 185	150	13.00	100	2.463711.1
TR 22 / 18 w sw LT	22 x 2	13 / 185	150	13.00	100	2.473711.8

code: TECALAN >semi-rigid<	dimensions	WP at 20°C	bending radius	weight	pack. unit roll of	part-no.
	mm	bar / psi	mm	kg/100 m	m	
TR 4 / 1.5 h nf	4 x 1.25	90 / 1280	20	1.15	500	2.565410.1
TR 4 / 2 h nf	4 x 1	75 / 1065	20	1.10	500	2.460211.1
TR 4 / 2.5 h nf	4 x 0.75	52 / 740	20	0.85	500	2.460221.1
TR 6 / 2 h nf	6 x 2	113 / 1600	30	2.70	200	2.460411.1
TR 6 / 3 h nf	6 x 1.5	75 / 1065	30	2.25	200	2.460421.1
TR 6 / 4 h nf	6 x 1	45 / 625	30	1.70	200	2.460431.1
TR 6 / 4 h sw LT	6 x 1	45 / 625	30	1.70	200	2.470431.8
TR 8 / 5 h nf	8 x 1.5	52 / 740	40	3.20	200	2.460521.1
TR 8 / 6 h nf	8 x 1	32 / 440	40	2.40	200	2.460531.1
TR 10 / 6 h nf	10 x 2	57 / 810	50	5.50	200	2.460621.1
TR 10 / 8 h nf	10 x 1	25 / 355	60	3.00	200	2.460631.1
TR 12 / 8 h nf	12 x 2	45 / 625	60	6.80	200	2.460711.1
TR 12 / 10 h nf	12 x 1	20 / 285	85	3.80	200	2.460731.1
TR 15 / 12 h nf	15 x 1.5	25 / 355	90	7.00	100	2.470911.1
TR 15 / 12 h sw LT	15 x 1.5	25 / 355	90	7.00	100	2.470911.8
TR 22 / 18 h sw LT	22 x 2	22 / 315	200	13.00	96 m 6 m Stangen	2.476311.8