

POLYAMIDE 11 C.BIO

C.BIO tubes are produced using a fully bio-sourced polymer named **Polyamide 11 (PA11)**. C.BIO tubes fulfill all requirements of the well-known standard **DIN 73378** and **DIN 74324**. C.BIO tubes are mainly used in low temperature application below **-40°C** or when long term resistance to high temperature is required.

 **NR Black** Other colours upon request

Ø External mm	Ø Internal mm	Thickness mm	Minimum bend radius mm	PA11			STANDARDS	
				PHL	PHLY	HL	DIN 74324 <i>Black tubes</i>	DIN 73378 <i>Colored tubes</i>
				Burst pressure at 23°C in bar*				
4	2.5	0.75	20	93	126	186		•
4	2.3	0.85	20	108	147	216		•
4	2	1	20	132	180	267	•	•
5	3	1	30	99	135	201		•
6	4	1	30	81	108	159	•	•
6	3	1.5	40	132	180	267		•
6	2	2	40	201	270	399		•
8	6	1	40	57	78	114	•	•
8	5.5	1.25	40	75	99	147		•
8	5	1.5	40	93	126	186		•
8	4	2	40	132	180	267		•
9	6	1.5	45	81	108	159	•	•
10	8	1	60	45	60	90	•	•
10	7.5	1.25	60	57	78	114	•	•
10	7	1.5	60	72	96	141		•
11	8	1.5	60	63	84	126	•	•
12	9	1.5	60	57	78	114	•	•
12	8	2	60	81	108	159		•
12.5	10	1.25	65	45	60	90		•
14	10	2	75	66	90	132	•	•
15	13	1	90	30	39	57		•
15	12	1.5	90	45	60	90	•	•
16	12	2	95	57	78	114	•	•
18	14	2	100	51	69	99	•	•
20	16	2	180	45	60	90		•

Burst pressure/operating pressure ratio: 3:1 *

Other sizes upon request

* Referred to the nominal diameter of the product

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POLYAMIDE 11 C.BIO

MARKING Our standard marking is:

DIN 73378	-	8x1mm	-	PA11 PHL	-	C.BIO	-	07001485-18-134-14:51
▼		▼		▼		▼		▼
Standard		External ø for thickness		Raw material		Product name		Batch number

PRESSURE VARIATION ACCORDING TO TEMPERATURE

PA11PHL

Temp	+23°C	+30°C	+40°C	+50°C	+60°C	+70°C	+80°C	+90°C	+100°C	+110°C	+120°C	+130°C
% Pressure*	100	87	74	64	57	52	47	44	40	36	33	30

PA11PHLY

Temp	+23°C	+30°C	+40°C	+50°C	+60°C	+70°C	+80°C	+90°C	+100°C	+110°C	+120°C	+130°C
% Pressure*	100	85	73	65	59	54	50	47	43	39	35	31

PA11HL

Temp	+23°C	+30°C	+40°C	+50°C	+60°C	+70°C	+80°C	+90°C	+100°C	+110°C	+120°C	+130°C
% Pressure*	100	81	61	50	44	39	34	31	28	26	23	21

*Guidelines

TOLERANCES

The tolerances on external diameter, according to **DIN 73378**, are:

External diameter from 4 to 10 mm \pm 0.2 mm
External diameter from 11 to 20 mm \pm 0.3 mm

Upon special request tubes with narrow tolerances.

USE TEMPERATURE

-40°C ÷ 100°C

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