

Biomass tubing (Plant-derived tubing)

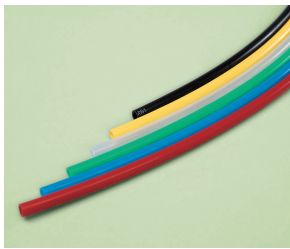
The product is made from plant-derived raw material, and contributes to CO₂ emission reduction.

Biomass mark certified by the Japan Organics Recycling Association (JORA).

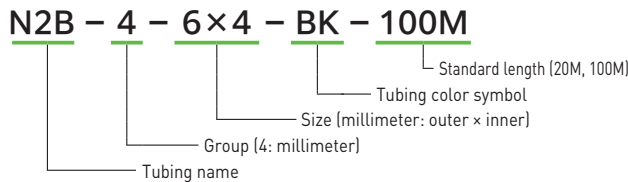
Biomass nylon tubing

The nylon tubing is made from castor oil and can be replaced from the petroleum-based nylon tubing as there is no functional difference.

N2B tubing The biomass content is 84% (calculated value, based on ASTM D6866), 74% (calculated value, based on JORA).



Product number table



Negative pressure performance

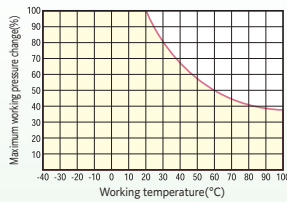
-101.294kPa



Operating fluid, working temperature range

Operating fluid	Working temperature range
Air	-40°C~+100°C
Water	0°C~+70°C
General operating oil	-40°C~+100°C

Relation between the working temperature and the maximum working pressure



Maximum working pressure varies with working temperature (environmental temperature). For use at more than 20°C, always check the maximum working pressure change on the left graph and keep the pressure within the indicated range.

⚠ Caution: Using tubings at a pressure outside the range may cause accidents or damage, for which Nitta is not liable.

Handling instructions

⚠ Caution: When water is used as operating fluid, the tubing material might be degraded depending on the additive. Contact us for details.

⚠ Caution: When water is used as operating fluid, keep the surge pressure below the maximum working pressure. Also, do not allow the water to freeze.

Type	Outer diameter × Inner diameter (mm)	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Reduction *1 amount of CO ₂ (g-CO ₂ /m)	Standard color (color symbol)					
					Black	Milky white	Yellow	Blue	Green	Red
					BK	MW	YL	BU	GN	RE
N2B-4 - 4 × 2.5	4 × 2.5	3.3	15	28	●	○	●*2	●*2	●*2	●*2
N2B-4 - 6 × 4	6 × 4	3.0	20	60	●	○	●	●	●	●
N2B-4 - 8 × 6	8 × 6	2.0	35	81	●	○	●	●	●	●
N2B-4 - 10 × 8	10 × 8	1.6	45	102	●	○	●	●	●	●
N2B-4 - 12 × 9	12 × 9	2.0		179	●	○	●*2	●*2	●*2	●*2
N2B-4 - 16 × 13	16 × 13	1.6	100	245	●	○	●*2	●*2	●*2	●*2

☎ Feel free to contact us for other sizes.

☎ For applicable fittings, please refer to N2 page on our "Tubing, Fitting and CHEMIFIT™" catalog.

Biomass polyurethane tubing

Tubing is produced mainly from plant-derived raw material.

U2B tubing The biomass content is 42% (calculated value, based on JORA).

Type	Outer diameter × Inner diameter (mm)	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Reduction *1 amount of CO ₂ (g-CO ₂ /m)	Standard color (color symbol)
					Black
U2B-4 - 4 × 2.5	4 × 2.5	(空気) 0.8 (水) 0.6	10	14	●*2
U2B-4 - 6 × 4	6 × 4		15	29	●*2
U2B-4 - 8 × 5	8 × 5		23	54	●*2

☎ Feel free to contact us for other color lineups.

☎ For further information including operating fluid, working temperature range, applicable fittings, please refer to U2 page on our "Tubing, Fitting and CHEMIFIT™" catalog.



*1 Assuming that raw material made from petroleum is replaced into raw material made from plant. *2 Made to Order The biomass value and the reduction amount of CO₂ emission are calculated on the basis of raw material manufacturers' data and are not guaranteed.



Safety Note

Regarding precautions and disclaimers for the handling of the listed products, to ensure safe use of our products, please be sure to read catalogues of "Tubing, Fitting & CHEMIFIT™" on our website before using our products.

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