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Imperial Flexible Nylon Tubing (PA12) for Air Brake Systems



Imperial Flexible Nylon Tube (PA12) is meticulously engineered to deliver exceptional performance and versatility across a diverse range of applications. Crafted from premium-grade Polyamide 12 (PA12) nylon, our tubing is impact-modified and heat/UV stabilised, ensuring superior durability and longevity even in the most demanding environments. Available in imperial sizes from $\frac{1}{8}$ " to 1" O.D., this flexible nylon tubing is the ideal choice for various industrial, automotive, and commercial uses.

Key Features:

- **Superior Chemical Resistance:** Highly resistant to oils, fuels, and a broad spectrum of chemicals, making it perfect for harsh and corrosive environments.
- **Seamless, Mirror-Smooth Bore:** Ensures optimal flow rates and minimises the risk of blockages, enhancing efficiency in fluid transfer applications.
- **Precision Manufacturing:** Produced to exacting tolerances (± 0.005 " ID & -0.005 " OD for sizes $\leq \frac{5}{8}$ ", and ± 0.005 " ID & -0.006 " OD for sizes $> \frac{5}{8}$ "), guaranteeing consistent and reliable performance.
- **Standard 30m Coils:** Conveniently packaged for easy handling, storage, and installation. **100m coils also largely stocked, with 500m drums and 1000m drums** available to order
- **Extensive Colour Range:** Available in 11 vibrant colours—including Natural, Blue, Black, Red, Green, Yellow, Purple, Pink, Brown, Grey, and Orange—with additional colours available upon request to suit your specific needs.

Versatile Applications:

Our PA12 Flexible Nylon Tube is engineered to excel in a multitude of applications, including but not limited to:

- **Pneumatic Controls:** Ideal for instrument lines and control circuits, with excellent flexibility for a cleaner and more efficient setup.
- **Fuel and Oil Lines:** Durable against exposure to fuels and oils, making it suitable for automotive and industrial fuel systems.
- **Air Brake Systems:** High resistance to moisture absorption ensures reliable performance in air brake applications.
- **Lubrication Lines:** Perfect for greasing sheaths and lubrication conduits, providing smooth and consistent flow.
- **Chemical Transfer:** Resistant to dilute acids and alkaline substances, making it suitable for laboratory and chemical handling applications.

- **Compressed Air Systems:** Maintains integrity in moisture-rich environments, ensuring steady and reliable airflow.
- **Refrigeration and Coolant Lines:** Performs efficiently across a wide temperature range, ideal for cooling systems in various industries.
- **Hydraulic Lines and Air Conditioning:** Offers stability and performance in hydraulic systems and air conditioning units.
- **Laboratory and Automotive Uses:** Versatile enough to meet the rigorous demands of laboratory equipment and automotive applications.

Specification	Details
Product Code	NIF
Material	Flexible, plasticized, high-viscosity Polyamide 12 (PA12) Nylon
Available Sizes	Ranges from 1/8" to 1" O.D. in imperial sizes
Standard Coil Lengths	30m coils, 100m coils (stocked), 500m drums (main sizes stocked), 1000m drums (to order)
Colors Available	Natural, Black (stocked) and Blue, Red, Green, Yellow, Purple, Pink, Brown, Grey, Orange (to order)
Operating Temperature	-40°C to +80°C (intermittently up to +110°C)
Chemical Resistance	High resistance to oil, fuel, and chemicals

Specification	Details
Bore Type	Mirror-smooth (seamless) for good flow rates
Dimensions Standard	Metric dimensions conform to BS5409
Features	Unprinted tubing, produced to exacting tolerances
Compliance Standards	BS 5409 (Parts 1 & 2), S.M.M.T C2C, SAE J1394 (Type A), SAE J844 (Type A), DIN 73378, DIN 74323, DIN 74324 (Parts 1 & 2), ISO-TC 22SC/2, ISO 7628
Certifications	UL 94 HB, REACH
Temperature Range	-40°C to +80°C, intermittently up to +110°C
Printing	Unprinted. Printing on request.
Applications	Oil lines, fuel lines, petrol tank breather pipes, greasing sheaths, pneumatic controls, bleed lines, brake controls, lubrication lines

Part	O.D."	I.D."	Wall mm	W.P.bar	B.P.bar	Bend mm	Mass g/m	Stock
NIF-1/8x062-30	1/8	0.062	0.8001	44	132		6.1	Stock
NIF-1/8x075-30	1/8	0.075	0.635	35	105	6.35	5.2	Stock
NIF-1/8x095-30	1/8	0.095	0.381	20	60	9.525	3.4	Stock
NIF-5/32x096-30	5/32	0.096	0.76518	34	102		7.9	Stock
NIF-3/16x107-30	3/16	0.107	1.02235	38	114		12.3	Stock
NIF-3/16x117-30	3/16	0.117	0.89535	33	99		11.1	Stock
NIF-3/16x137-30	3/16	0.137	0.64135	23	69	12.7	8.5	Stock

Part	O.D."	I.D."	Wall mm	W.P.bar	B.P.bar	Bend mm	Mass g/m	Stock
NIF-1/4x150-30	1/4	0.15	1.27	35	105	12.7	20.7	Stock
NIF-1/4x170-30	1/4	0.17	1.016	28	84		17.4	Stock
NIF-1/4x190-30	1/4	0.19	0.762	20	60	25.4	13.7	Stock
NIF-5/16x182-30	5/16	0.182	1.65735	37	111		33.4	Production
NIF-5/16x212-30	5/16	0.212	1.27635	28	84	22.225	27.3	Stock
NIF-5/16x242-30	5/16	0.242	0.89535	18	54	31.75	20.2	Stock
NIF-3/8x225-30	3/8	0.225	1.905	35	105		46.5	Stock
NIF-3/8x250-30	3/8	0.25	1.5875	29	87	31.75	40.3	Stock
NIF-3/8x265-30	3/8	0.265	1.397	26	78		36.4	Stock
NIF-3/8x295-30	3/8	0.295	1.016	17	51	38.1	27.7	Stock
NIF-1/2x340-30	1/2	0.34	2.032	28	84		69.5	Production
NIF-1/2x375-30	1/2	0.375	1.5875	21	63		56.5	Stock
NIF-5/8x500-30	5/8	0.5	1.5875	16	48	63.5	72.7	Stock
NIF-3/4x594-30	3/4	0.594	1.9812	16	48	101.6	108.4	Stock
NIF-1x813-30	1	0.813	2.3749	14	42	228.6	175.3	Stock

Contact Information

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