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## Imperial Semi-Rigid Nylon Tube (PA12) for Industrial Applications



Our **Imperial Semi-Rigid Nylon Tubing** (Product Code: NIR) is specifically designed for industrial applications that demand higher temperature and pressure capabilities beyond those of standard flexible nylon tubing. Manufactured from impact-modified, heat and UV-stabilised PA12 nylon, this tubing provides enhanced thermal resistance and mechanical strength. It excels in demanding environments such as hydraulic systems, high-pressure pneumatic controls, and automotive fuel lines, where reliability and performance are essential. Available in imperial sizes ranging from  $\frac{1}{8}$ " I.D. to 1" O.D., our semi-rigid tubing

meets rigorous industry standards for modern industrial, automotive, and pneumatic applications.

## Key Features:

- **Exceptional Chemical Resistance:** Withstands exposure to oils, fuels, and a wide range of chemicals, making it ideal for harsh and corrosive environments.
- **Durable and Impact-Modified:** Engineered for toughness and resilience, ensuring longevity even at low temperatures.
- **UV-Stabilised:** Enhanced resistance to weathering and UV exposure for prolonged outdoor use.
- **Seamless, Mirror-Smooth Bore:** Ensures optimal flow rates and minimises pressure drops in fluid transfer applications.
- **Precision Manufacturing:** Produced to exacting tolerances for consistent and reliable performance.
- **Vibrant Color Options:** Available in more than 11 colors including Natural, Blue, Black, Red, Green, Yellow, Purple, Pink, Brown, Grey, and Orange.

## Applications:

Our Imperial Semi-Rigid Nylon Tubing is ideal for a broad spectrum of applications, including:

- **Pneumatic Controls:** Suitable for instrument lines and control circuits requiring semi-rigid tubing.
- **Fuel and Oil Lines:** Perfect for automotive fuel lines, oil transfer, and lubrication lines due to its chemical resistance.
- **Hydraulic Systems:** Ideal for hydraulic lines where durability and chemical resistance are critical.

- **Air Brake Systems:** Complies with industry standards for use in air brake systems.
- **Chemical Transfer:** Resistant to dilute acids and alkalis, suitable for laboratory and industrial chemical handling.
- **Compressed Air Systems:** Maintains integrity in moisture-rich environments.
- **Refrigeration and Coolant Lines:** Performs efficiently across a wide temperature range.

Our tubing is unprinted for a clean appearance, with printing available upon request. Its low water absorption and high chemical resistance make it the perfect choice for demanding industrial applications where performance and reliability are paramount.

## Choose Quality and Reliability

Opt for our Imperial Semi-Rigid Nylon Tubing (PA12) for your industrial and automotive needs. With superior material properties and a wide range of sizes and colors, it's the ideal solution for applications requiring durability and chemical resistance. Contact us today to learn more about how our PA12 nylon tubing can meet your specific requirements.

Specification	Details
Product Code	NIR
Material	Semi-Rigid, high-viscosity Polyamide 12 (PA12) Nylon
Available Sizes	Ranges from 1/8" I.D. to 1" O.D. in imperial sizes

<b>Specification</b>	<b>Details</b>
<b>Standard Coil Lengths</b>	30m coils (stocked), 100m coils, 500m drums, 1000m drums (to order)
<b>Colors Available</b>	Natural (stocked) and Black, Blue Red, Green, Yellow, Purple, Pink, Brown, Grey, Orange (to order)
<b>Operating Temperature</b>	-40°C to +110°C (intermittently up to +140°C)
<b>Chemical Resistance</b>	High resistance to oil, fuel, and chemicals
<b>Bore Type</b>	Mirror-smooth (seamless) for good flow rates
<b>Dimensions Standard</b>	Imperial dimensions conform to relevant standards
<b>Features</b>	Unprinted tubing, produced to exacting tolerances, impact-modified and UV-stabilised
<b>Compliance Standards</b>	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
<b>Certifications</b>	UL 94 HB, FDA 21 CFR 177.1500, EU-Directive 10/2011, EC 1935/2004, REACH
<b>Temperature Range</b>	-40°C to +110°C, intermittently up to +140°C
<b>Printing</b>	Unprinted. Printing on request.
<b>Applications</b>	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
NIR-1/8x062-30	1/8	0.062	0.8001	101	303		6.1	Stock
NIR-1/8x075-30	1/8	0.075	0.635	67	201	6.35	5.2	Stock
NIR-1/8x095-30	1/8	0.095	0.381			9.525	3.4	Production
NIR-5/32x096-30	5/32	0.096	0.76518	63	189		7.9	Stock
NIR-3/16x107-30	3/16	0.107	1.02235	75	225		12.3	Stock
NIR-3/16x117-30	3/16	0.117	0.89535	60	180		11.1	Stock
NIR-3/16x137-30	3/16	0.137	0.64135	37	111	12.7	8.5	Stock
NIR-1/4x150-30	1/4	0.15	1.27	67	201	12.7	20.7	Stock
NIR-1/4x170-30	1/4	0.17	1.016	47	141		17.4	Stock
NIR-1/4x190-30	1/4	0.19	0.762	31	93	25.4	13.7	Production
NIR-5/16x182-30	5/16	0.182	1.65735	72	216		33.4	Stock
NIR-5/16x212-30	5/16	0.212	1.27635	48	144	22.225	27.3	Stock
NIR-5/16x242-30	5/16	0.242	0.89535	29	87	31.75	20.2	Production
NIR-3/8x225-30	3/8	0.225	1.905	67	201		46.5	Stock
NIR-3/8x250-30	3/8	0.25	1.5875	50	150	31.75	40.3	Stock
NIR-3/8x265-30	3/8	0.265	1.397	42	126		36.4	Stock
NIR-3/8x295-30	3/8	0.295	1.016	27	81	38.1	27.7	Production
NIR-1/2x340-30	1/2	0.34	2.032	46	138		69.5	Production
NIR-1/2x375-30	1/2	0.375	1.5875	33	99		56.5	Stock
NIR-5/8x500-30	5/8	0.5	1.5875	25	75	63.5	72.7	Production
NIR-3/4x594-30	3/4	0.594	1.9812			101.6	108.4	Production
NIR-1x813-30	1	0.813	2.3749			228.6	175.3	Production

## Contact Information

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