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Metric Semi-Rigid Nylon Tubing (PA12) for Pneumatic and Food Applications



Our **Semi-Rigid Metric Nylon Tubing** is specifically designed for industrial applications that demand higher temperature and pressure capabilities beyond what standard flexible nylon tubing can offer. Constructed from impact-modified, heat and UV-stabilised PA12 nylon, this tubing provides superior 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 critical.

Key Features:

- **Exceptional Chemical Resistance:** Highly resistant to oils, fuels, and a broad spectrum of chemicals, making it ideal for harsh and corrosive settings.
- **Durable and Impact-Modified:** Engineered for toughness and longevity, ensuring reliable performance at temperatures as low as -40°C and up to +110°C (intermittently up to +140°C).
- **Heat/UV Stabilised:** Enhanced resistance to heat and UV exposure, suitable for prolonged outdoor use without degradation.
- **Seamless, Mirror-Smooth Bore:** Provides optimal flow rates and minimises pressure drops in fluid transfer applications.
- **Precision Manufacturing:** Produced to exacting tolerances for consistent and dependable performance, conforming to BS5409 standards for metric dimensions.
- **Wide Range of Sizes:** Available from 1.5mm I.D. up to 28mm O.D. in metric sizes.
- **Vibrant Colour Options:** Offered in Natural, Black, Blue, Red, Green, Yellow, Purple, Pink, Brown, Grey, and Orange to suit your specific requirements.

Applications:

Our Semi-Rigid Metric Nylon Tubing is suitable for a diverse array of industrial applications, including:

- **Pneumatic Controls:** Ideal for instrument lines and control circuits requiring semi-rigid tubing.
- **Fuel and Oil Lines:** Perfect for automotive fuel lines, oil transfer, and lubrication systems due to its excellent chemical resistance.
- **Hydraulic Systems:** Suitable for hydraulic lines where durability and chemical resistance are critical.
- **Air Brake Systems:** Complies with industry standards for use in air brake applications.

- **Chemical Transfer:** Resistant to dilute acids and alkalis, making it appropriate for laboratory and industrial chemical handling.
- **Compressed Air Systems:** Maintains integrity in moisture-rich environments, ensuring reliable performance.
- **Refrigeration and Coolant Lines:** Performs efficiently across a wide temperature range, ideal for cooling systems in various industries.

Why Choose Our Semi-Rigid Metric Nylon Tubing?

Designed with the industrial professional in mind, our semi-rigid metric nylon tubing combines superior material properties with precision manufacturing to deliver unmatched performance. Its exceptional chemical resistance and durability make it the preferred choice for applications requiring reliable and long-lasting tubing solutions.

Contact us today to discuss how our Semi-Rigid Metric Nylon Tubing (Product Code: NMR) can meet your specific project requirements.

Specification	Details
Product Code	NMR
Material	Semi-Rigid, impact-modified, heat/UV stabilized Polyamide 12 (PA12) Nylon
Available Sizes	Ranges from 1.5mm i.D. to 28mm O.D. in metric sizes
Standard Coil Lengths	30m coils (stocked), 100m coils (main sizes stocked) and 500m drums, 1000m drums (to order).

Specification	Details
Colors Available	Natural (stocked) and Black, Blue, Red, Green, Yellow, Purple, Pink, Brown, Grey, Orange (to order)
Operating Temperature	-40°C to +110°C (intermittently up to +140°C)
Chemical Resistance	High resistance to oil, fuel, and chemicals
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, FDA 21 CFR 177.1500, EU-Directive 10/2011, EC 1935/2004, REACH
Applications	Oil lines, fuel lines, petrol tank breather pipes, greasing sheaths, pneumatic controls, bleed lines, brake controls, lubrication lines

Part	O.D.mm	I.D.mm	Wall mm	W.P.bar	B.P.bar	Bend mm	Mass g/m	Stock
NMR-3x1.5-30	3	1.5	0.75				5.4	Stock
NMR-4x2-30	4	2	1	100	300		9.6	Stock
NMR-4x2.5-30	4	2.5	0.75	60	180	10	7.8	Stock

Part	O.D.mm	I.D.mm	Wall mm	W.P.bar	B.P.bar	Bend mm	Mass g/m	Stock
NMR-4x3-30	4	3	0.5			16	5.6	Production
NMR-5x2-30	5	2	1.5				16.8	Production
NMR-5x3-30	5	3	1	67	201	12	12.8	Stock
NMR-5x3.3-30	5	3.3	0.85	52	156	13	11.3	Production
NMR-6x3-30	6	3	1.5	100	300		21.6	Stock
NMR-6x4-30	6	4	1	50	150	16	16	Stock
NMR-6x4.5-30	6	4.5	0.75			24	12.6	Production
NMR-8x5-30	8	5	1.5	60	180		31.3	Stock
NMR-8x5.5-30	8	5.5	1.25	45	135	25	27	Stock
NMR-8x6-30	8	6	1	33	99	32	22.4	Stock
NMR-9x6-30	9	6	1.5				36.1	Production
NMR-10x7-30	10	7	1.5	43	129	33	40.9	Stock
NMR-10x7.5-30	10	7.5	1.25	33	99	39	35.1	Stock
NMR-10x8-30	10	8	1	25	75	50	28.8	Stock
NMR-11x8-30	11	8	1.5				45.7	Production
NMR-12x8-30	12	8	2				64.1	Production
NMR-12x8.5-30	12	8.5	1.75	41	123		57.5	Stock
NMR-12x9-30	12	9	1.5	33	99	47	50.5	Stock
NMR-12x9.5-30	12	9.5	1.25				43.1	Production
NMR-12x10-30	12	10	1	20	60	70	35.3	Stock
NMR-13x10-30	13	10	1.5				55.3	Production
NMR-14x10-30	14	10	2				76.9	Production
NMR-14x11-30	14	11	1.5	43	129	68	60.1	Stock
NMR-15x11-30	15	11	2				83.3	Production
NMR-15x12-30	15	12	1.5	25	75	75	64.9	Stock
NMR-16x12-30	16	12	2			85	89.7	Stock
NMR-16x13-30	16	13	1.5			100	69.7	Production
NMR-18x14-30	18	14	2				102.6	Production
NMR-20x16-30	20	16	2				115.4	Production
NMR-22x17-30	22	17	2.5			140	156.2	Production
NMR-25x20-30	25	20	2.5			200	180.3	Production

Part	O.D. <i>mm</i>	I.D. <i>mm</i>	Wall <i>mm</i>	W.P. <i>bar</i>	B.P. <i>bar</i>	Bend <i>mm</i>	Mass <i>g/m</i>	Stock
NMR-28x22-30	28	22	3			140	240.4	Production

Contact Information

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