

## **ENGLISH**

## Datasheet

Natural 30m Nylon Air Hose, -40 → +80°C, Application Various

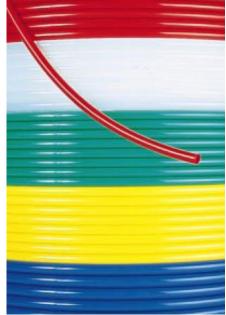
RS Stock number 483-5557

# NYLON TUBING - FLEXIBLE & SEMI RIGID - NMF, NLF & NHR series

### Special Features

- Resistance to a wide range of chemicals (see Chemical Resistance Table)
- Silicone free
- Abrasion resistance excellent
- Mirror smooth inner for improved flow
- Made from virgin polymer type 12
- Produced to exacting tolerances
- Suppled in both metric and imperial sizes







RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



#### LIGHT DUTY FLEXIBLE (in accordance with BS 5409 Pt. 1: 1976)

	Outside Diameter			Wall Thickness Concentricity		Recommended Maximum Working Pressure				Mini mum Radius Inside	Weight	
Product Ref.	Nominal mm	Min. mm	Max. mm	Min. mm	Max. mm	Max. mm	-40°C +20℃ bar	+30°C bar	+30°C bar	+80°C bar	Bend@ 20°C mm	per coil Kg
NLF 04M	4	3.95	4.05	0.42	0.58	0.08	15	12	9.5	7	30	0.21
NLF 05M	5	4.95	5.05	0.55	0.71	0.08	16	13	10	7.5	35	0.27
NLF 06M	6	5.90	6.05	0.67	0.83	0.08	16	13	10	7.5	45	0.41
NLF 08M	8	7.90	8.05	0.92	1.08	0.08	17	14	11	8	55	0.72
NLF 10M	10	9.90	10.05	1.17	1.33	0.08	17	14	11	8	75	1.13
NLF 12M	12	11.90	12.05	1.17	1.33	0.08	14	11	9	6.5	85	1.37
NLF 16M	16	15.90	16.05	1.42	1.58	0.08	13	10	8	6	115	2.23
NLF 18M	18	17.90	18.05	1.42	1.58	0.10	11	9	7	5	135	2.54
NLF 22M	22	21.90	22.05	1.72	1.88	0.10	11	9	7	5	155	3.73
NLF 28M	28	27.80	28.05	2.17	2.33	0.10	11	9	7	5	225	5.94

#### NORMAL DUTY FLEXIBLE (in accordance with BS 5409 Pt. 1: 1976)

	Outside Diameter			Wall Thickness Concentricity		Recommended Maximum Working Pressure				Mini mum Radius Inside	Weight	
Product Ref.	Nominal mm	Min. mm	Max. mm	Min. mm	Max. mm	Max. mm	-40°C + 20°C bar	+30°C bar	+30°C bar	+80°C bar	Bend@ 20°C mm	per coil Kg
NMF 04M	4	3.93	4.05	0.67	0.83	0.08	26	22	17	12	25	0.25
NMF 05M	5	4.93	5.05	0.77	0.93	0.08	24	20	15	11	30	0.36
NMF 06M	6	5.90	6.05	0.92	1.08	0.08	24	20	15	11	35	0.52
NMF 08M	8	7.90	8.05	1.17	1.33	0.08	22	18	14	10	45	0.87
NMF 10M	10	9.90	10.05	1.42	1.58	0.08	22	18	14	10	60	1.31
NMF 12M	12	11.90	12.05	1.67	1.83	0.08	21	17	13	10	70	1.85
NMF 16M	16	15.90	16.05	1.92	2.08	0.08	18	15	11	8.5	90	2.88
NMF 18M	18	17.90	18.05	1.92	2.08	0.10	16	13	10	7.5	115	3.29
NMF 22M	22	21.90	22.05	2.42	2.58	0.10	16	13	10	7.5	125	5.00
NMF 28M	28	27.80	28.05	2.92	3.08	0.10	15	12	9.5	7	160	7.69

#### Physical Properties

Density	1.04 g / cc	65.4 lb / ft. <sup>3</sup>
Melting Point	186°C	367°F
Specific Heat (Cal.)	0.58	
Thermal conductivity (c.g.s.)	7 x 10 - 1	
Latent heat of fusion (K.Cal/KG)	20	
Linear coefficient of expansion	11 x 10 <sup>-5</sup>	
Atmospheric absorption of		
water (@ R.H. 65%)	0.5%	
Maximum absorption of water		
(@ R.H. 100%)	1.5%	
Inflammability	Selfextinguishin	g

Conforms to Product Standards:

BS 5409 Part 1 : 1976 ISO 7628 Part 1 : 1985 ISO 7628 Part 2 : 1986

Test Methods & Pocedures

VDE 0303 DIN 53452 DIN 53455 DIN 53479

#### BURST TEST PRESSURE METRIC SIZE NYLON

Nominal	Minimum Burst Pressure						
Outside Diameter	Light Duty Grade	Normal Duty Grade					
mm	bar	bar					
4	45	78					
5	48	72					
6	48	72					
8	51	66					
10	51	66					
12	42	63					
16	40	54					
18	33	48					
22	33	48					
28	33	48					

NOTE: These short term burst pressures are calculated on an induced stress of 20 MPa @ 20°C

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