ENGLISH

Datasheet

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

RS Stock number 415-0496

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

Physical Properties

Density	1.04 g / cc	65.4 lb / ft.^{3}
Melting Point	186°C	367°F
Specific Heat (Cal.)	0.58	
Thermal conductivity (c.g.s.)	7 x 10^{-4}	
Latent heat of fusion (K.Cal/KG)	20	
Linear coefficient of expansion	11 x 10^{5}	
Atmospheric absorption of water (@ R.H. 65%)	0.5%	
Maximum absorption of water (@ R.H. 100%)	1.5%	
Inflammability	Selfextinguishing	

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

Please see Standards Index for further information

BURST TEST PRESSURE
METRIC SIZE NYLON

Nominal Outside Diameter	Minimum Burst Pressure	
	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

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.

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

Product Ref.	Outside Diameter			Wall Thickness Concentricity			Recommended Maximum Working Pressure				Minimum Radius Inside	Weight per coil
	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	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)

Product Ref.	Outside Diameter			Wall Thickness Concentricity			Recommended Maximum Working Pressure				Minimum Radius Inside	Weight per coil
	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	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

All metric sizes ex stock in Natural and Black colour with other colours available subject to minimum manufacturing quantity

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