

Datasheet

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

RS Stock number 415-0452

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
- Supplied 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 & Procedures

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

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 Bend @ 20°C mm | Weight per coil Kg |
|--------------|------------------|------------|------------|------------------------------|------------|------------|--------------------------------------|--------------|--------------|--------------|--|-----------------------|
| | 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 | | |
| 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 Bend @ 20°C mm | Weight per coil Kg |
|--------------|------------------|------------|------------|------------------------------|------------|------------|--------------------------------------|--------------|--------------|--------------|--|-----------------------|
| | 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 | | |
| 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