

RNF-100

A premium grade flame-retarded polyolefin heat-shrinkable tubing.

Outstanding all round performance, excellent physical and electrical performance, good chemical and solvent resistance, flexible.

RNF-100 is a premium grade polyolefin based heat-shrinkable tubing with an outstanding overall balance of properties. The product has a wide range of both military and

industrial approvals. RNF-100 tubing possesses a unique blend of physical, chemical and electrical properties and is suitable for a wide range of applications.

Used extensively in military applications for lightweight harness jackets, insulation, color coding, identification, protection against fluids and provides mechanical strength.

Temperature rating

Operating temperature range:	-55°C to +135°C
Minimum shrink temperature:	+95°C
Minimum full recovery temperature:	+121°C

Ordering information



Inside diameter		Wall thickness	Standard package		Ordering description
D (min)	d (max)	W (nom)	1.22m	Spool	
Expanded as supplied	Recovered after heating	Recovered after heating	Length quantity	quantity	
mm	mm	mm	m	m	
1.2	0.6	0.45	60	300	RNF-100- ³ / ₆₄ -color code
1.6	0.8	0.45	60	300	RNF-100- ¹ / ₁₆ -color code
2.4	1.2	0.50	60	150	RNF-100- ³ / ₃₂ -color code
3.2	1.6	0.50	60	150	RNF-100- ¹ / ₈ -color code
4.8	2.4	0.50	60	150	RNF-100- ³ / ₁₆ -color code
6.4	3.2	0.65	30	75	RNF-100- ¹ / ₄ -color code
9.5	4.8	0.65	30	121	RNF-100- ³ / ₈ -color code-FSP*
12.7	6.4	0.65	30	90	RNF-100- ¹ / ₂ -color code-FSP*
19.0	9.5	0.75	30	60	RNF-100- ³ / ₄ -color code-FSP*
25.4	12.7	0.90	30	60	RNF-100-1-color code-FSP*
31.0	16.0	0.95	12	30	RNF-100-1 ¹ / ₄ -color code
38.0	19.0	1.00	12	91	RNF-100-1 ¹ / ₂ -color code
51.0	25.4	1.15	6	30	RNF-100-2-color code
76.0	38.0	1.25	6	15	RNF-100-3-color code
102.0	51.0	1.40	6	15	RNF-100-4-color code
127.0	63.5	1.52	6	30	RNF-100-5-color code**

*Material supplied on Flat Spooled Packaging (FSP) as standard.

**Only available in black.

Standard colors

Standard color	Clear	Black	Red	Yellow	Green	Blue	White
Code	X	0	2	4	5	6	9
Non Standard color	Brown	Orange	Violet	Grey			
Code	1	3	7	8			

Approvals

*UL File E35586	Def Stan 59-97 Type 2b
*CSA LR31929	MIL-DTL-23053/5 Class 1 (colors), Class 2 (Clear) (exclude 1- ³ / ₄)
VG 95343 Part 5 Type A and B	BS 4G-198 Part 3 11B
VDE 0341/Pt 9005	

* Not clear product (X).

Performance

Test	Test method	Test requirement
Heat Ageing:	ISO 188 (168h at 175°C)	Ultimate elongation: 150% (min)
Corrosion resistance:	ASTM D2671 (16h at 175°C)	No corrosion of mirrors
Dielectric strength:	IEC 243	Ø ≤ 25.4 20 MV/m Ø > 25.4 10 MV/m
Flame retardancy:	ASTM D876 UL 224 (All tube flame test)	Duration of burning 30s max
Fluid resistance:	24 h at 23°C, ISO 37	Tensile strength: 7 MPa (min) Ultimate elongation: 200% (min)
Test fluids:	Aircraft fuel to ISO1817 liquid B Phosphate ester ISO1817 liquid 103 Lubricating oil ISO1817 liquid 101	

Specifications

Material Safety Data Sheet available on request.

Installation instructions available on request.

Users should independently evaluate the suitability of the product for their application.

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