

RW-175

Raychem

Thin-wall, semirigid, fluoropolymer heat-shrinkable tubing

RW-175 heat-shrinkable tubing is a tough, semirigid, very-thin-wall insulation. It is especially suitable for applications requiring high-temperature performance, outstanding abrasion and cut-through resistance, or superior chemical and solvent properties. The translucent polyvinylidene fluoride material permits visual inspection of covered components.

RW-175 tubing provides electrical insulation and strain relief of multipin connectors and solder joints. It is also widely used as insulation for high-temperature components and heater leads. With its thin-wall construction, RW-175 is ideal for applications that require dense packing of components.

RW-175 provides protection from most industrial solvents, fuels, and chemicals – including JP-8, oxidants, and strong acids. It is UL-recognized and CSA-certified at 150°C, 600 V, with VW-1 and OFT flame-retardancy ratings.

Wall thickness

Temperature rating

Full recovery temperature:	175°C		
Continuous operating temperature:	-55°C to 175°C		
Recommended maximum temperature for use as a primary insulator: 135°C			

Specifications*			.91	(
Туре	Raychem	Military	UL	CSA	
RW-175	RW-3029/2	AMS-DTL-23053/8	E35586 VW-1	LR31929 OFT	

^{*}When ordering, always specify latest issue.

Dimensions (millimeters/inches)

Incida diamatar



Incida diamatar

Wall thickness

inside diameter wall thickness		inside diameter			wali thickness						
	D (m	in.)	d (m	ax.)	W			D (min.)	d (max.)	W	
	Ехра	ınded	Rec	overed	Recovered			Expanded	Recovered	Recovered	
Size	as su	upplied	afte	r heating	after heatin	g**	Size	as supplied	after heating	after heatin	g**
3/64	1.2	0.046	0.6	0.023	0.25 ± 0.05	0.010 ± 0.002	1/2	12.7 <i>0.500</i>	6.4 0.250	0.33 ± 0.05	0.013 ± 0.002
1/16	1.6	0.063	0.8	0.031	0.25 ± 0.05	0.010 ± 0.002	3/4	19.1 <i>0.750</i>	9.5 <i>0.375</i>	0.43 ± 0.08	0.017 ± 0.003
3/32	2.4	0.093	1.2	0.046	0.25 ± 0.05	0.010 ± 0.002	1	25.4 1.000	12.7 0.500	0.48 ± 0.08	0.019 ± 0.003
1/8	3.2	0.125	1.6	0.062	0.25 ± 0.05	0.010 ± 0.002	1 1/2	38.1 <i>1.500</i>	19.1 <i>0.750</i>	0.51 ± 0.08	0.020 ± 0.003
3/16	4.7	0.187	2.4	0.093	0.25 ± 0.05	0.010 ± 0.002	2	50.8 <i>2.000</i>	25.4 1.000	0.51 ± 0.08	0.020 ± 0.003
1/4	6.4	0.250	3.2	0.125	0.33 ± 0.05	0.013 ± 0.002	3	76.2 3.000	38.1 <i>1.500</i>	0.64 ± 0.10	0.025 ± 0.004
3/8	9.5	0.375	4.7	0.187	0.33 ± 0.05	0.013 ± 0.002	4	101.6 4.000	50.8 <i>2.000</i>	0.76 ± 0.13	0.030 ± 0.005
**Wall thic	ckness wil	l be less if tub	ing recov	ery is restrict	ed during shrinka	ge.					

Ordering information

Colors	Standard	Translucent (clear)			
	Nonstandard	Black			
Size selection	Always order the largest size that will shrink snugly over the component being covered.				
Nonstandard sizes	Sizes of 2 inches and larger are by special order only. In addition, a variety of nonstandard sizes are available.				
Standard packaging	4-foot lengths				
Ordering description	Specify product name, size, and color; for example, RW-175 1/4-X (X=Clear).				

	on values Property	Unit	Requirement	Method of test
Physical	Dimensions	mm (inches)	See reverse	ASTM D 2671
J	Longitudinal change	percent	+0, –10 maximum	ASTM D 2671
	Tensile strength	psi (MPa)	5000 <i>(34.5)</i> minimum	ASTM D 2671
	Ultimate elongation	percent	150 minimum	ASTM D 2671
	Secant modulus (expanded)	psi (MPa)	1 x 10 ⁵ (690) minimum	ASTM D 2671
	Specific gravity	1 (/	1.8 maximum	ASTM D 2671
	Low-temperature flexibility (4 hours at -55°C/-67°F)		No cracking	AMS-DTL-23053/8
	Heat shock (4 hours at 300°C/572°F)		No dripping, flowing, or cracking	AMS-DTL-23053
	Heat resistance (168 hours at 250°C/482°F) Followed by test for:			ASTM D 2671
	Ultimate elongation	percent	50 minimum	ASTM D 2671
	Vacuum outgassing			ASTM E 595
	TML (total mass loss)	percent	1.0 maximum	
	VCM (volatile condensable material)	percent	0.1 maximum	
Electrical	Dielectric strength	volts/mil (kV/mm)		ASTM D 2671
	Sizes 3/64 through 1/2		800 <i>(31.5)</i> minimum	
	Sizes 3/4 through 2		600 <i>(23.6)</i> minimum	
	Volume resistivity	ohm-cm	10 ¹³ minimum	ASTM D 2671
Chemical	Copper mirror corrosion (16 hours at 175°C/347°F)		Noncorrosive	ASTM D 2671 Procedure A
	Copper contact corrosion (168 hours at 175°C/347°F)		No pitting or blackening of copper	ASTM D 2671 Procedure B
	Followed by test for:		100	107115 0171
	Ultimate elongation	percent	100 minimum	ASTM D 2671
	Flammability (average time of burning)	seconds	15 maximum	ASTM D 2671 Procedure A
	Fungus resistance			ISO 846 Method B
	Followed by tests for:	(1/10-)	5000 (24 F)'.'.	
	Tensile strength	psi (MPa)	5000 <i>(34.5)</i> minimum	ASTM D 2671
	Ultimate elongation	percent	150 minimum	ASTM D 2671
	Dielectric strength	volts/mil (kV/mm)	000 (21 500) 1-1	ASTM D 2671
	Sizes 3/4 through 1/2		800 <i>(31,500)</i> minimum	
	Sizes 3/4 through 2	noroont	600 <i>(23,600)</i> minimum	ACTN ID 2/71
	Water absorption	percent	0.5 maximum	ASTM D 2671
	(24 hours at 23°C/73°F)			ACTM D 2/71
	Fluid resistance (24 hours at 23°C/73°F) in: JP-8 fuel (MIL-T-5624) Skydrol 500 Hydraulic fluid (MIL-H-5606) Aviation gasoline 100/300 (MIL-G-5572) Salt water (5% salt) Anti-icing fluid (MIL-A-8243) Lubricating oil (MIL-L-7808)			ASTM D 2671
	Followed by tests for:			
	Dielectric strength	volts/mil (kV/mm)		ASTM D 2671
	Sizes 3/64 through 1/2	VOILS/IIIII (NV/IIIIII)	700 <i>(27.6)</i> minimum	M311VI D 20/1
	Sizes 3/64 through 1/2		500 <i>(19.7)</i> minimum	
	Tensile strength	psi (MPa)	5000 (79.7) minimum	ASTM D 2671
	RW-3029/2 for specific details about test procedu	• •	5000 (<i>54.5)</i> Hillillinum	ASTIVI D 2071

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

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