

- Clear
- Flame-retardant

Thermofit RT-375 is a highly flame-retardant heat-shrinkable thin-wall tubing that has excellent clarity. It is manufactured from a modified fluoropolymer whose properties include toughness, chemical resistance, and high-temperature performance. A very thin wall gives RT-375 excellent flexibility.

Applications include protection of wire and cable markers subject to abuse; bundling and jacketing of wires and cables to protect them from mechanical and chemical abuse while permitting full inspectability of the item covered; and protection of electronic components without losing the ability to identify the part.

RT-375 is UL-recognized at 150°C, 600 V, with UL VW-1 flame-retardancy ratings.

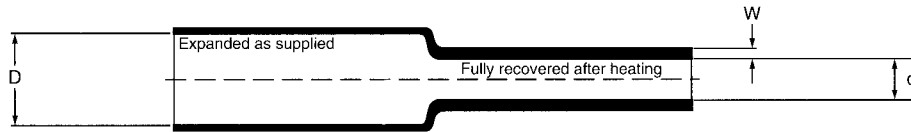
#### Temperature rating

Full recovery	150°C
Continuous operating temperature	-55°C to 150°C
Recommended maximum temperature for use as a primary insulator	135°C

#### Specifications\*

Type	Raychem	Military	UL
RT-375	RT-375	MIL-I-23053/18, Class 2	E85381 VW-1

\* When ordering, always specify latest issue.



#### Dimensions (inches/millimeters)

Size	Inside diameter		Wall thickness	
	D (min.) expanded as supplied	d (max.) recovered after heating	W recovered after heating**	
3/64	.046 1.2	.023 0.6	.010±.002	.25±.05
1/16	.063 1.6	.031 0.8	.010±.002	.25±.05
3/32	.093 2.4	.046 1.2	.010±.002	.25±.05
1/8	.125 3.2	.062 1.6	.010±.002	.25±.05
3/16	.187 4.8	.093 2.4	.010±.002	.25±.05

Size	Inside diameter		Wall thickness	
	D (min.) expanded as supplied	d (max.) recovered after heating	W recovered after heating**	
1/4	.250 6.4	.125 3.2	.012±.003	.30±.08
3/8	.375 9.5	.187 4.8	.012±.003	.30±.08
1/2	.500 12.7	.250 6.4	.012±.003	.30±.08
3/4	.750 19.1	.375 9.5	.017±.003	.43±.08
1	1.00 25.4	.500 12.7	.019±.003	.48±.08

\*\* Wall thickness will be less if tubing recovery is restricted during shrinkage.

#### Ordering information

Color	Clear only
Size selection	Always order the largest size that will shrink snugly over the component being covered.
Standard packaging	On spools
Nonstandard sizes	Special sizes may be made available on request.

**Specification values**

	Property	Unit	Performance	Method of test	
<b>Physical</b>	Dimensions	inches ( <i>mm</i> )	See reverse	ASTM D2671	
	Longitudinal change	percent	+0, -10	ASTM D2671	
	Tensile strength	psi ( <i>MPa</i> )	3500 minimum ( <i>24.1</i> )	ASTM D2671	
	Ultimate elongation	percent	300 minimum	ASTM D2671	
	Concentricity	percent	70 minimum	MIL-I-23053	
	Secant modulus (as supplied)	psi ( <i>MPa</i> )	2.5x10 <sup>4</sup> minimum ( <i>172</i> )	ASTM D2671	
	Specific gravity		1.85 maximum	ASTM D2671	
	Low temperature flexibility (4 hours at -55°C/-67°F)		No cracking	MIL-I-23053/18	
	Heat shock (4 hours at 250°C/482°F)		No dripping, flowing, or cracking	ASTM D2671	
	Heat resistance (336 hours at 225°C/437°F)			ASTM D2671	
	Followed by test for: Ultimate elongation	percent	100 minimum	ASTM D2671	
	Clarity stability (24 hours at 200°C/392°F)		Marking legible through tubing wall	MIL-I-23053	
	<b>Electrical</b>	Dielectric strength	volts/mil ( <i>volts/mm</i> )	400 minimum ( <i>15,760</i> )	ASTM D2671
Volume resistivity		ohm-cm	10 <sup>11</sup> minimum	ASTM D2671	
<b>Chemical</b>	Copper mirror corrosion (16 hours at 160°C/320°F)		Noncorrosive	ASTM D2671 Procedure A	
			No pitting or blackening of copper	ASTM D2671 Procedure B	
	Flammability		Self-extinguishing within 1 minute, 25% maximum flag burn	ASTM D2671 Procedure C	
	Fungus resistance		Rating of 0	ASTM G21	
	Water absorption (24 hours at 23°C/73°F)	percent	0.5 maximum	ASTM D2671	
	Fluid resistance (24 hours at 50°C/122°F) JP-4 fuel (MIL-T-5624) Hydraulic fluid (MIL-H-5606) Lubricating oil (MIL-L-23699) Lubricating oil (MIL-L-7808) 5% NaCl (O-S-1926) De-icing fluid (MIL-A-8243) Water				ASTM D2671
		Followed by tests for: Tensile strength	psi ( <i>MPa</i> )	2000 minimum ( <i>13.8</i> )	ASTM D2671
		Ultimate elongation	percent	250	ASTM D2671
		Dielectric strength	volts/mil ( <i>volts/mm</i> )	400 minimum ( <i>15,760</i> )	ASTM D2671

Note: Consult RT-375, Issue 2 for specific details about test procedures.

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