

## FLEXIBLE POLYVINYL CHLORIDE 2 : 1 Shrink Ratio

**UL RECOGNIZED 105° C 600V (VW-1)**



RoHS Compliant

### TYPICAL FEATURES

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| <p>1) SUMITUBE V is a flexible, flame retarded, radiation cross-linked heat-shrinkable PVC tubing recognized by Underwriters' Laboratories (UL) Subject 224 and rated VW-1.</p> <p>2) SUMITUBE V has excellent flame-retardant properties with improved heat resistance and storage stability compared to conventional non-irradiated PVC.</p> | <p>3) Shrink temperature is 170° C.</p> <p>4) Operating temperature range is -20° C to +105° C.</p> |
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### STANDARD SIZES

SIZE	INSIDE DIAMETER AS SUPPLIED (MIN)		INSIDE DIAMETER AFTER RECOVERY (MAX)		WALL THICKNESS AFTER RECOVERY (NOM)	
	INCH	(MM)	INCH	(MM)	INCH	(MM)
3/64	.046	1.2	.023	0.6	.020	0.51
1/16	.063	1.6	.031	0.8	.020	0.51
3/32	.093	2.4	.046	1.2	.025	0.64
1/8	.125	3.2	.062	1.6	.025	0.64
3/16	.187	4.8	.093	2.4	.025	0.64
1/4	.250	6.4	.125	3.2	.025	0.64
3/8	.375	9.5	.187	4.8	.025	0.64
1/2	.500	12.7	.250	6.4	.025	0.64
3/4	.750	19.1	.375	9.5	.030	0.76
1	1.000	25.4	.500	12.7	.035	0.89

**Standard Colors:** Black  
**Standard Package:** Spooled (S)  
**How to Order:** (Type of material) (Size) (Color) (Packaging)  
**Example:** V 1/4 Black S

# V SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<b>Physical:</b> Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex. (-10° C) Heat shock (121° C 1 Hr.) Heat resistance (136° C 168 Hrs.) Elongation (%) Secant modulus (psi) Deformation (125° C 1 Hr.) (%)	ASTM D638 ASTM D638 ASTM D792 UL 224 UL 224  ASTM D638 ASTM D882 UL 224	1500 MIN. 100 MIN. 1.35 MAX. No cracking No cracking  70% of unaged value MIN. 25000 MAX. 50 MAX.
<b>Electrical:</b> Dielectric withstand Volume resistivity (ohm-cm)	UL 224 ASTM D876	2500 MIN. 1.0 X 10 <sup>10</sup> MIN.
<b>Chemical:</b> Corrosion Copper stability (136° C 168 Hrs.) Elongation (%) Water absorption (%) Flammability Shrink temperature, nominal	UL 224 UL 224  ASTM D570 UL-224 VW-1	No corrosion  70% of unaged value MIN. 0.5 MAX. pass 170° C

**Specification reference:** UL-224 105° C, 600V, VW-1  
 File E48762 YDPU2, Cat. No. 809

**Marking:** SUMITUBE V is surface printed with recognized UL marking as follows:  
 "SUMITOMO-K CSA HS PVC TUBING 105° C OFT SUMITUBE V CAT 819 VW-1-F"

## AEROSPACE AND DEFENCE AUSTRALIA

No.14/18 Blanck Street  
 Motorway Business Park  
 Ormeau QLD Australia 4208  
 Tel (07) 5549 0077  
 Fax (07) 5549 0088  
[www.aerodefence.com.au](http://www.aerodefence.com.au)

