

PVC tubing



Characteristics

- UL and RoHS compliant
- Excellent electrical, physical and chemical properties
- Flammability: VW-1
- Operating temperature: -50°C ~ 105°C

Materials

- Insulation: PVC

Application

Our non-shrinkable tubing is flexible, flame-retardant tubing with excellent electrical and physical properties, including excellent acid and corrosion resistance. This tubing is suitable for insulation use in automotive electronics, terminal lugs, small electrical parts, lead wires of toy motors and transformers etc. HP-PVC is UL listed under file number E361230 for all colors, except clear. It is ideal for application in wire harness, automatic equipment, railway, general manufacturing industry where wire and cable are required to have a protection.

Technical Data

Property	Specification Requirement	Test Method	Typical Value
Tensile strength (Room temp.)	Min. 10.4Mpa	UL224	14Mpa
Elongation at break (Room temp.)	Min. 200%	UL224	400%
Tensile strength after aging (136°C 168hrs)	Min. 7.3Mpa	UL224	9.3Mpa
Elongation after aging (136°C 168hrs)	Min. 100%	UL224	200%
Voltage withstand (Un-aged)	Withstand 2.5kV for 1 minute and breakdown	UL224	Pass
Voltage withstand (Aged)	Withstand at least half of un-aged breakdown voltage for 1 minute and breakdown	UL224	Pass
Corrosion of bare copper (136°C 168hrs)	No corrosion	UL224	No sign of deg.
Longitudinal shrinkage	≤5%	UL224	≤3%
Cold bend (-30°C 1hrs)	No cracking	UL224	Pass
Flammability		UL1581	VW-1
Volume resistivity	Min. 10 ¹⁰ Ω-cm	UL224	Pass
Heat shock (180°C 4hrs)	No cracking	UL224	Pass
Dielectric strength	>19.7kV/mm	ASTM D2671	>25kV/mm

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Type	Size (mm)	
	I.D.	W.T.
IS111	2.00±0.15	0.50±0.10
IS112	2.50±0.15	0.50±0.10
IS113	3.00±0.15	0.50±0.10
IS114	3.50±0.15	0.50±0.10
IS001	4.00±0.15	0.50±0.10
IS002	5.00±0.15	0.50±0.10
IS003	6.00±0.15	0.50±0.10
IS115	7.00±0.15	0.50±0.10
IS004	8.00±0.15	0.50±0.10
IS116	9.00±0.15	0.50±0.10
IS005	10.00±0.15	0.50±0.10
IS117	11.00±0.15	0.50±0.10
IS006	12.00±0.15	0.50±0.10
IS118	13.00±0.15	0.50±0.10
IS119	14.00±0.15	0.50±0.10
IS120	15.00±0.15	0.50±0.10
IS009	16.00±0.15	0.70±0.15
IS121	17.00±0.15	0.70±0.15
IS122	18.00±0.15	0.75±0.15
IS123	19.00±0.15	0.75±0.15
IS124	20.00±0.15	0.75±0.15
IS125	25.00±0.15	0.75±0.15
IS126	30.00±0.15	1.00±0.15
IS127	35.00±0.15	1.00±0.15
IS128	40.00±0.15	1.00±0.15

Other sizes are available upon request.

Standard color: Black, Clear, Red.