



## HP-PVC(300)/HP-PVC(600) Non-Shrinkable Tubing

**Description:** HP-PVC(300) / HP-PVC(600) Non-shrinkable Tubing is flexible, flame-retardant tubing which has excellent electrical and physical properties, including excellent acid fastness 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. This product is UL listed under file number E361230 for all colors except clear.

### Application:

Ideal for application in wire harness, automatic equipment, railway, general manufacturing industry where wire and cable are required to have a protection.

### Technical data:

Material: PVC

Operating range : -50°C--+105°C

Flammability : VW-1

Standard color: Black / Clear

UL, RoHs, Halogen Free



### Specification

| Property                        | Test Methods          | Typical Data                | Result                      |
|---------------------------------|-----------------------|-----------------------------|-----------------------------|
| Temperature Rating              | UL224                 |                             | 105°C                       |
| Longitudinal Change             | ASTM D2671            | -5%--+5%                    | -3%                         |
| Tensile Strength                | ASTM D638             | ≥10.4MPa                    | 14.0MPa                     |
| Elongation at break             | ASTM D638             | ≥200%                       | 400%                        |
| Tensile Strength after Aging    | ASTM D638             | ≥7.3MPa                     | 9.3MPa                      |
| Elongation at break after Aging | ASTM D638             | ≥100%                       | 200%                        |
| Potential Rating                | UL224                 | 300V/600V                   | 300V/600V                   |
| Volume Resistance               | ASTM D2671            | ≥1.0*10 <sup>10</sup> Ω .cm | ≥3.6*10 <sup>10</sup> Ω .cm |
| Dielectric strength             | UL224, AC2500v, 1min  | No Breakdown                | No Breakdown                |
| Corrosion of bare copper        | UL224, 180°C±1°C,4hrs | No Corrosion                | No Corrosion                |
| Heat Shock                      | UL224, 136°C, 168hrs  | No Cracking                 | No Cracking                 |
| Cold Bend                       | UL224, -30°C, 1hrs    | No Cracking                 | No Cracking                 |

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**Size:**

| Type         | Size        |             |
|--------------|-------------|-------------|
|              | ID (MM)     | WT (MM)     |
| HP-PVC (300) | 2.0 ± 0.15  | 0.35 ± 0.10 |
| HP-PVC (300) | 2.5 ± 0.15  | 0.35 ± 0.10 |
| HP-PVC (300) | 3.0 ± 0.15  | 0.45 ± 0.10 |
| HP-PVC (300) | 3.5 ± 0.15  | 0.45 ± 0.10 |
| HP-PVC (300) | 4.0 ± 0.15  | 0.45 ± 0.10 |
| HP-PVC (300) | 5.0 ± 0.15  | 0.45 ± 0.10 |
| HP-PVC (300) | 6.0 ± 0.15  | 0.45 ± 0.10 |
| HP-PVC (300) | 7.0 ± 0.15  | 0.45 ± 0.10 |
| HP-PVC (300) | 8.0 ± 0.15  | 0.45 ± 0.10 |
| HP-PVC (300) | 9.0 ± 0.15  | 0.57 ± 0.15 |
| HP-PVC (300) | 10.0 ± 0.15 | 0.57 ± 0.15 |
| HP-PVC (300) | 11.0 ± 0.15 | 0.57 ± 0.15 |
| HP-PVC (300) | 12.0 ± 0.15 | 0.57 ± 0.15 |
| HP-PVC (300) | 13.0 ± 0.15 | 0.57 ± 0.15 |
| HP-PVC (300) | 14.0 ± 0.15 | 0.70 ± 0.15 |
| HP-PVC (300) | 15.0 ± 0.15 | 0.70 ± 0.15 |

**Notes:**

1. Other Size and wall thickness is available as customer's order.
2. The standard color are black and clear, other colors are available as customer's requirements.

