

V0 Flame Retardant Orange Heat Shrink Tube For New Energy Vehicle



Model number: SBD-SWHF-EV

Working temperature: -55°C ~ 125°C

Structure

The V0 flame-retardant orange heat shrink tube for new energy vehicle is made of environmentally friendly polyolefin heat shrink materials that are cross-linked by high-energy electron beam bombardment. It is environmentally friendly and does not produce toxic gases or harmful substances during combustion. It has many advantages such as flame retardancy, insulation, environmental protection, soft and fast shrinkage, and stable

performance.

Application

It is used for protection of stacked bus bars for new energy vehicles, as well as rust prevention and anti-corrosion treatment of related products such as wire connections, solder joint protection, wire end treatment, soft connection insulation protection, and wire harness surface protection for new energy vehicles.

Characteristics

1. Can be used for a long time under acidic and alkaline conditions.
2. Shrink ratio: 2:1
3. Shrinkage temperature: 70 ° C~125 ° C.

According to UL224 standard, the temperature for fully recovery is 200 ° C for 3 minutes.

4. Flame retardant and environmentally friendly.

Table 1: Specification

Property	Unit	Standard	Test method
Tensile Strength	MPA	≥10.4(before aging)	GB/T1040
		≥7.3(after aging)	158°C*168hrs
Breakage Elongation (%)	%	≥200(before aging)	GB/T1040
		≥100(after aging)	158°C*168hrs
Heat Shock	-	no sticking & no cracking	UL 224
Cold Blend	-	no cracking	UL224 -30°C*1hrs
Breakdown Strength	KV/mm	≥15	ASTM D 149
Dielectric	-	no breakdown	In condition DC 3500V, 60s

Volume Resistivity	Ω. cm	≥1×10 ¹⁴	GB/T1410
Corrosion Performance	-	Pass	158°C*168h
Copper Stability	-	Pass	158°C*168h
Flammability	-	V0 (Sample bar thickness: 3mm)	GB/T2408-2008

Table 2: Specification

Inner Diameter	As Supplied (mm)		After Recovery(mm)		Standard Package	Application Range(mm)
	Inner diameter	Wall thickness	Inner diameter	Wall thickness	(m/spool)	
Φ16.0	16.6±0.4	0.7±0.2	≤8.0	1.30±0.15	100	8.3~15
Φ18.0	19.0±0.5	0.7±0.2	≤9.0	1.35±0.15	50	9.3~17
Φ20.0	22.0±0.5	0.7±0.2	≤10.0	1.40±0.15	50	10.4~19
Φ22.0	24.0±0.5	0.7±0.2	≤11.0	1.40±0.15	50	11.4~21
Φ25.0	26.0±0.5	0.7±0.2	≤12.5	1.40±0.15	50	12.8~24
Φ28.0	29.0±0.5	0.7±0.2	≤14.0	1.40±0.15	50	14.5~27
Φ30.0	31.5±1.5	0.7±0.2	≤15.0	1.40±0.15	50	16.0~28
Φ35.0	36.5±1.5	0.7±0.2	≤17.5	1.50±0.15	50	18.0~34.0
Φ40.0	41.5±1.5	0.7±0.2	≤20.0	1.50±0.15	50	21.0~39.0

Remark: Other sizes or thickness can be customized.

Remark: Standard color is orange, other colors can be customized.