Oranergy

Orange Single-wall Heat Shrink Tubing for Electric Vehicles
橙色电动汽车用单壁热缩管

高压识别，安全柔韧，电动汽车专用叠层母排
High-Voltage Identification, Safe & Flexible, EV Dedicated Laminated Busbars

该产品是一款专为新能源汽车高压线路和叠层母排设计的单壁橙色热缩管，颜色鲜明，便于高压线路识别。采用阻燃聚烯烃材料，具备优异的绝缘性、热稳定性和柔韧性，可覆盖复杂部件和线缆，广泛应用于汽车、工业交通领域及新能源汽车叠层母排，提升安全性能。

This product is a single-wall, flame-retardant orange tubing designed for high-voltage circuits and laminated busbars in electric vehicles. It features excellent insulation, flexibility, and thermal stability, making it ideal for automotive, industrial transportation, and laminated busbar applications where safety and reliable identification are essential.

产品特性与优势 Features and benefits

性能 Property	指标要求 Requirement	测试方法 Test Method	典型值 Typical Data
操作温度范围 Operating Temperature	/	/	-55°C to +125°C
最低收缩温度 Min. Shrink Temperature	/	/	+84°C
完全收缩温度 Full recovery temperature	/	/	+125 °C
长度变化率 Longitudinal change	-5 to +5%	ASTM D 2671	通过 Pass
抗张强度 Tensile strength	≥10.4MPa	ASTM D 2671	≥10.4MPa
断裂伸长率 Elongation at break	≥200%	ASTM D 2671	≥200%
老化后的抗张强度 Tensile strength after aging	初始值的70% 70% of initial value	ASTM D 2671 (158℃/168 hrs)	≥70%
老化后断裂伸长率 Elongation at break after aging	≥100%	ASTM D 2671 (158℃/168 hrs)	≥100%
热冲击 Heat shock	无裂痕 No Cracking	ASTM D 2671 (225℃/4 hrs)	无裂痕 No Cracking
低温柔软性 Low temperature flexibility	无裂痕 No Cracking	ASTM D 2671 (-45℃/4 hrs)	无裂痕 No Cracking
绝缘耐压 Dielectric voltage withstand	无击穿 No Breakdown	UL224 (2500V, 1min)	无击穿 No Breakdown
体积电阻率 Volume resistivity	$\geq 10^{14}\Omega\cdot cm$	IEC 60093	$\geq 10^{14}\Omega\cdot cm$
绝缘强度 Dielectric strength	≥15kV/mm	ASTM D 149	≥15kV/mm
阻燃性能 Flammability	VW-1 V0	UL224 UL94	VW-1 V0
铜腐蚀性 Copper Mirror Corrosion	无腐蚀 No Corrosion	ASTM D 2671 (150℃, 16hrs)	无腐蚀 No Corrosion
同心率 Concentricity	≥65%	ASTM D2671	≥65%

- 收缩比2:1
- 专为电动汽车高压橙色设计，易识别
- 阻燃性能极佳
- 柔软轻薄，适用于元件和线缆保护
- 优异的绝缘、电阻和热稳定性能

- Shrink ratio 2:1
- Designed in orange for EV high voltage identification
- Exhibits exceptional flame retardant properties
- Soft and lightweight, fits components and cables
- Excellent insulation, resistivity, thermal stability

颜色 COLOR

符合标准 Standards

- UL224 (600 V, 125°C, VW-1);
- UL94 V0
- RoHS;
- REACH;

https://www.hzdingyuan.cn/

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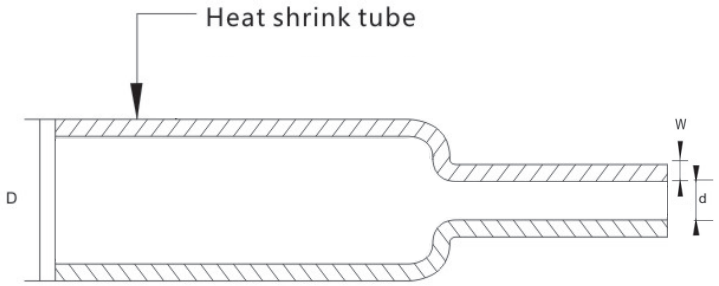

标准壁厚 Standard wall thickness						
收缩比 Shrink Ratio	编号 Part No.	规格 Size (Φ mm)	收缩前 As supplied (mm)	收缩后 After recovered(mm)		标准长度 Standard length (m/roll)
			最小内径 I.D. min (D)	最大内径 I.D.max (d)	壁厚 W.T (w)	
2:1	Oranergy-S-10	10(0.394″)	10.50±0.30	≤5.00	0.56±0.10	100
	Oranergy-S-11	11(0.433″)	11.50±0.30	≤5.50	0.56±0.10	100
	Oranergy-S-12	12(0.472″)	12.50±0.30	≤6.00	0.56±0.10	100
	Oranergy-S-13	13(0.512″)	13.50±0.30	≤6.50	0.70±0.10	100
	Oranergy-S-14	14(0.551″)	14.50±0.30	≤7.00	0.70±0.10	100
	Oranergy-S-15	15(0.591″)	15.50±0.40	≤7.50	0.70±0.10	100
	Oranergy-S-16	16(0.630″)	16.50±0.40	≤8.00	0.70±0.10	100
	Oranergy-S-17	17(0.670″)	17.50±0.40	≤8.50	0.70±0.10	100
	Oranergy-S-18	18(0.709″)	19.00±0.50	≤9.00	0.70±0.10	100
	Oranergy-S-20	20(0.787″)	22.00±0.50	≤10.0	0.80±0.15	100
	Oranergy-S-22	22(0.866″)	24.00±0.50	≤11.0	0.80±0.15	100
	Oranergy-S-25	25(0.984″)	26.00±0.50	≤12.5	0.90±0.15	50
	Oranergy-S-28	28(1.102″)	29.00±0.50	≤14.0	0.90±0.15	50
	Oranergy-S-30	30(1.181″)	31.50±1.00	≤15.0	1.00±0.15	50
	Oranergy-S-35	35(1.378″)	36.50±1.00	≤17.5	1.00±0.15	50
	Oranergy-S-40	40(1.575″)	41.50±1.00	≤20.0	1.00±0.15	50
	Oranergy-S-45	45(1.772″)	46.50±1.50	≤22.5	1.00±0.15	25
	Oranergy-S-50	50(1.969″)	≥50	≤25.0	1.00±0.15	25

接受特殊尺寸及颜色定制需求，技术参数如有变更，恕不另行通知。最低订购量（MOQ）可能与包装数量有所不同。
Custom sizes and colors are available upon request. Technical specifications are subject to change without prior notice. Minimum order quantities (MOQ) may differ from standard packaging quantities.

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