

TECHNICAL DATA SHEET

UNIQtmt UVC-10LV

产品简介 Product description

单组份紫外光固化绝缘喷墨，为动力电池包金属部件提供绝缘保护，高附着强度，无溶剂，快速固化，适用于钢，铝，等多种界面的绝缘保护，该产品有着极佳的耐湿热，冷热冲击，酸碱，盐雾，耐水煮等老化特性，以及各类结构胶和导热结构胶优异的匹配性。为动力电池在各种恶劣工况下提供绝缘保护，以及在 CTP，CTC 等电芯集成设计中提供高粘结强度，保护电芯在各种受力工况下配合结构胶和导热结构胶实现可靠且持久的粘结。

One component UV curing insulation inkjet UNIQtmt UV-10 is designed to offer EV battery metal component with superior insulation protection, high adhesion strength, solvent free, fast cure. It can be applied to traditional metal surface such as aluminum and steel. By molecular engineering this product is designed with superior aging performance under heat and humidity or even hot water immersion, and are developed with versatile compatibility with structural and thermal conductive adhesive, providing the bonded cells with last lasting bonding performance under harsh conditions.

技术参数 Technical data

	单位 Unit	典型值 Typical value	测试标准/方法 Standard/method
颜色 Color :		蓝色 Blue	目视 visual
密度 Density	g/ml	1.02	GB/T 13354
粘度 Viscosity, 25°C&20RPM	cps	~ 25	GB/T 2794
固含量 Solids	%	~ 100%	GBT38608-2020
剪切强度, lap shear adhesion strength	MPa	~ 13	GB/T 7124 (配合聚氨酯结构胶)
附着力, Cross cut adhesion, 100 µm	级别 Rating	0	ISO 2409
绝缘电阻, Electrical resistance, DC 1000V, 60s, 100 µm	Ω	500 G	GB/T10064
绝缘耐压, Voltage resistance , DC 4000V 30s, 100 µm	µA	0.3	GB/T1408.1
导热系数, Thermal conductivity	W/mk	0.23	ASTM D 5470
阻燃 , Flame resistance	级别, Rating	V0	UL94
落球冲击, Impact resistance	J	10	GB/T 1732

TECHNICAL DATA SHEET

柔韧性, Flexibility	mm	< 20	GB/T 6742
------------------	----	------	-----------

注释：除特殊说明外，所有数据都于 23+/-2 °C, 50+/-2%RH 下获得。本产品有蓝色和无色两个版本。Notes: Unless specified otherwise all test data are obtained at 23+/-2 °C, 50+/-2%RH. Blue and colorless version are offered under this product name.

施工应用 Application

表面处理 Surface pretreatment: 喷涂表面需要擦去灰尘，油污等肉眼可见污渍，铝合金表面建议打磨或者激光处理等方式去除表面氧化层，该产品可直接喷涂于铝合金表面。Coating surface needs to be free of obvious dust, oil and other contamination. It is suggested to have sanding or laser treatment to aluminum surface for removal of the oxide layer.

空气喷涂 Air spray: 为达到更好的流平消泡效果，建议物料温度为 40~60 度，压缩空气压力 2~10 bar. 单层喷涂厚度不超过 100 微米。For better leveling and degassing, suggested to heat the material to the temperature of 40 ~ 60 degree C, with air pressure of 2~10 bar. The maximum thickness of one coat layer should below 100 micron.

湿度控制 Humidity control: < 80%RH

UV 固化条件 UV curing conditions: UV LED 395nm, 20000mj/cm²

申明 Disclaimer

技术参数表中的参数是基于我们目前的知识和经验。它对我们的产品及其应用提供了一些可能的参考，但是并不能涵盖所有用户对此产品的应用的方法及理解。来自此信息的某些特点或适用方法并不具有法律效益。

The information in this technical data sheet is based on our current knowledge and experiences. It shall provide information about our products and its application possibilities, however, does not release the user to check the suitability of the products for the planned application purposes himself. A legally binding assurance of certain characteristics or the suitability for a certain application purpose can not be derived from our information.