

BEST TECHNOLOGY CO., LIMITED

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碳浆油墨物性资料 Carbon Ink Property

Here is property of carbon ink used in [polyester dome](#) ([Polydome](#)) in Best Technology.

特征 Features

- 电阻值低, $10\Omega/\text{cm}^2$, 14μ 厚。
- Low resistance, $10\Omega/\text{cm}^2$, thickness: 14μ .
- 低价格经济实用。
- Cheap, economic.
- 对 PET 薄膜 (未处理) 的附着性优秀。
- Excellent adhesion to PET film (untreated)
- 曲挠性优良。
- Excellent flexibility
- 单组份之故, 长期储藏安定; 作业性优。
- Good stability on a long-period of storing; Excellent working performance.
- 与其它公司制的银浆具有相融性。
- Compatibility to silver ink made by other company.

物理性能及使用条件

Physical properties and service conditions:

- 比重(20°C): 1.15
- Proportion (20°C): 1.15
- 粘度(dPa.s) : 300 (VISCOTESTER 粘度计, VT-04 型, 2 号转筒, 25°C)
- Adhesion (dPa.s): 300 (Visco Tester: Model: VT-04, 2# drum, 25°C)
- 刷材料种类...PET 薄膜 (未处理)
- Printed Material: PET film (untreated)
- 推荐印刷膜类... 14μ (网版: 150 网目的不锈钢板)
- Recommended printing film: 14μ (screen printing stencil: stainless plate with 150 meshes)
- 印刷面积...约 $160\text{cm}^2/\text{g}$ ($14\mu\text{m}$)
- Printing area: approx. $160\text{cm}^2/\text{g}$ ($14\mu\text{m}$)
- 稀释溶剂...蒂特龙溶剂
- retarder thinner: TETRON
- 版的清洗...维尼龙清洗溶剂
- stencil Cleaning ... Weinilong cleaning solvent
- 干燥条件... 120°C 约 15 分钟
- Drying condition: 120°C , ~15 minutes

性能($14\mu\text{m}$ 厚)

Performance ($14\mu\text{m}$ in thickness)

- 表面电阻... $10.0\Omega/\text{cm}^2$ (用 4 探针法进行测定)
- Surface resistance: $10.0\Omega/\text{cm}^2$ (measured by probe method 4)
- 体积电阻... $1.0\times 10^{-2}\Omega\text{cm}$ (用 4 探针法进行测定)
- volume resistance: $1.0\times 10^{-2}\Omega\text{cm}$ (measured by probe method 4)
- 铅笔硬度...H
- Pencil hardness : H
- 附着性...100/100 (十字错纹胶带剥离实验)
- Adhesion: 100/100 (Cross adhesive tape release test)

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耐环境性能

Environmental Resistance performance

- 热震实验：电阻值的变化在 10%以内(-20~80℃, 各 2 小时, 各 10 周期)
- Heat shock test: The resistance varies within 10% (-20 to 80 °C, 2 hours each, 10 cycles each)
- 耐热性：同上 (150℃, 72 小时)
- Heat resistance: same as above (150°C, 72 hours)
- 耐湿性：同上 (40℃, 90% RH, 240 小时)
- Moisture resistance: same as above (40°C, 90% RH, 240 hours)

Above parameters maybe adjusted without notice. If you want to know exact carbon ink used in your [polyester dome](#) ([Polydome](#)), please contact us for more details.

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