

SPECIAL INKS / 特别油墨

TPHF (Halogen Free / 无卤素)

The use of Halogen-free in electrical and electronic products is expected to increase over the coming year. This increase is driven by industry initiatives and legislation aimed at protecting the environment and human health.

无卤素材质应用在电器和电子产品会越来越普遍，大家都为了保护环境和人类健康都主动地应用和利用立法去监管。



TPST (Soft-touch / 手触感)

Quick drying semi gloss pad printing inks. They are elastic and show considerable forming resistance. For printing onto soft-touch substrates such as TPE and soft-touch polyurethane varnishes.

快速干燥，半光泽的移印油墨。具有弹性，表现出相当好的防定型特性。适用于印刷在柔软的印刷体上，如TPE和有手触感的聚亚胺酯清漆。



Medical Instrument / 医疗用品

(Leaders ink life science & technology)

Kent pad printing ink: TPA, TPN, TPW, TPQ with hardener TPWH meets the international requirements of biological test for plastics by "TOXIKON" Test Class VI-70°C. Ideal for medical product printing.

坚毅TPA, TPN, TPW, TPQ油墨及硬化剂TPWH已通过严格"TOXIKON"国际测试，可安全用于塑料医疗用品器材上。



KMI (Mirror / 镜面)

Achieves effects that resemble Hot Stamping & IMD/IML on complex product surfaces. Cut IMD labels and hot stamping foil costs. A maximum mirror effect can be achieved using clear foils of PMMA, polycarbonate, coated polyester and polystyrene.

针对达至热烫印及IMD/IML闪烁效果，大大节省IMD/IML模具制作冗长时间。印刷在聚甲基丙烯酸甲酯、聚碳酸酯、涂层聚酯及聚苯乙烯能获得较大镜面效果。



BRONZE & SILVER Colour / 金银色

Stylish your (plastic) product with metallic sense.

让你的(塑料)产品仿如涂装金属般亮丽。



For various Bronze & Silver color, please see real colour shades card from KENT sales people.

有多种金银色，请向销售人员索取原色卡。

COLOUR SHADES / 色版 (C-MIX-2000)

Highly brilliant, mono-pigmented 12 basic colours for matching special colour shades (RAL, Pantone, HKS etc.).

12种基本颜色可变化出数百种不同色彩，更备有配方调配Pantone、RAL等色系。



Colour shades above only for brief reference, please see real colour shades card from KENT sales people.

以上色版仅作参考，请向销售人员索取原色卡。

Suitability Chart Ink-substrate / 油墨适用性参考表

The following information is no guarantee for the suitability of pad printing inks for certain substrates, but is intended to help the user to choose suitable pad inks. Pre-tests are always necessary. Information is based on present experience.

以下对照表内容能有效帮助用者快速选择适合油墨系列。内容仅作参考性资料。建议与本公司富有经验的销售人员沟通及进行相关实地测试作最后标准。

	Preferred application 优先应用	Suitable 适合	Oven curing 烘干	Air drying 风干	UV-curing UV光固	Can be processed in 1 or 2 component printing ink 单或双组分移印油墨	2 component printing ink 双组分移印油墨	20 min./140°C 20分钟/140°C	光碟 Compact Discs	玻璃 Duroplastics	玻璃 Glass	橡胶、TPE、人造皮革 Rubber, TPE, 人造皮革	木材 Wood	涂层 Coated Surfaces	皮革、纺织品、帆布、帆布等 Leather, Textiles, 帆布, 帆布等	金属 Metals	尼龙、玻璃纤维、聚酰胺 Nylon, Glass fibre, Polyamide	聚丙烯、聚丙烯纤维 Polypropylene, Polypropylene fiber	聚碳酸酯 Polycarbonate	聚酯 Polyester	聚甲基丙烯酸酯 PMMA	聚苯乙烯 Polystyrene	ABS, SAN	聚脲 Polyurethane	PVC硬片 PVC rigid	氯化聚丙烯 Polypropylene (chlorinated)	聚丙烯(未表面处理) Polypropylene (non-treated)
TPW + TPWH	10:1 ①	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPA + TPWH	4:1 ②	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPA/GL + TPWH/GL	20:1 ②	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPN + TPWH	10:1 ①	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPE	▲	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPPU + TPWH	10:1 ①	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPIC	③	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPRB + TPWH	10:1 ①	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
KTP/HC	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
KTP/UVA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
KTP/UVPP	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
KTP/UVH	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
KTP/UVD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
KTP/HC-NT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
KTP/HC-MT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

	TPW + TPWH	TPA + TPWH	TPA/GL + TPWH/GL	TPN + TPWH	TPE	TPPU + TPWH	TPIC	TPRB + TPWH	KTP/HC	KTP/UVA	KTP/UVPP	KTP/UVH	KTP/UVD	KTP/HC-NT	KTP/HC-MT
Drying speed 干燥速度	Medium 中等	Medium 中等	Slow 慢	Quick fast 很快	Medium 中等	Fast 快	Slow 慢	Medium 中等	Extreme fast 极快	Quite slow 很慢	Quite slow 很慢	Extreme fast 极快	Quite slow 很慢	Quite slow 很慢	Quite slow 很慢
Glossiness 光泽度	High 高	Medium 中等	Medium 中等	High 高	Matt 哑光	Matt 哑光	Medium 中等	Matt 哑光	High 高	High 高	Matt 哑光	High 高	Medium 中等	High 高	Matt 哑光
Opacity 遮盖力	Medium 中等	High 高	High 高	Medium 中等	Medium 中等	Medium 中等	Medium 中等	Medium 中等	High 高	Medium 中等	High 高	High 高	Medium 中等	Clear 透明	Clear 透明
Outdoor resistance 户外性能	Medium 中等	Medium 中等	Medium 中等	Medium 中等	Low 低	Medium 中等	Medium 中等	Medium 中等	High 高	Medium 中等	Medium 中等	High 高	Medium 中等	Medium 中等	Medium 中等



GREEN PAD PRINTING 环保移印
www.kentpp.com
www.kentpp.com.cn
0535-0614CE

UV PAD PRINTING INK / UV光固移印油墨

UV ink contains less than 15% solvent. It does not evaporate as much solvent to the air like solvent base ink, and is the best ink to fight air pollution. Able to keep consistent ink viscosity. Instant drying capability by UV light and offers better printability. Excellent abrasion resistances combined with quick ink curing are the reason why these inks are gaining more and more market shares.

UV光固移印油墨的开油水含量很少，不超过15%，不会像溶剂型油墨一样使大量开油水挥发到空气中污染环境。油墨浓度及印刷质量可稳定保持；通过UV光源后，瞬时干固。UV光固移印油墨系列具有最佳的耐磨性，结合快干元素，在市场上便大派用场。

KTP/HC

Developed for printing on golf balls and various plastics. Good printability under standard pad printing conditions and excellent abrasion resistance. Curing energy should be between 500 and 1500 mJ/cm².

专门开发，适用于高尔夫球及各种塑料的印刷。在一般印刷环境下，具备良好的可印刷性和极佳的耐磨性。UV线光能量在500-1500 mJ/cm²之间。

KTP/UVA

For printing of ABS and co-polymers, good achieves adhesion, good printability and excellent opacity on various commercial plastics. Curing energy about 500-2000 mJ/cm².

特别为ABS，聚脂混合物料提供高附着力及固实颜色。UV线光能量需约500-2000 mJ/cm²。

KTP/UVH

ABS, SAN, polystyrene, polycarbonate and other substrates can be printed. Curing energy should be between 500 and 1000 mJ/cm² or chemical curing by addition of hardener TPWH/D pot life is 8 hours.

可适合印刷在ABS、SAN、聚苯乙烯、聚碳酸酯及其他基材。UV线光能量在500-1000 mJ/cm²之间或加TPWH/D硬化剂需8小时化学干固。

KTP/UVD

Suitable for pre-treated polyethylene, PC, PMMA, polyamide and even some metals. Curing energy required is approx. 1000-2000 mJ/cm².

适合需印前预处理，聚苯乙烯、PC、PMMA、聚胺、甚至乎金属物料印刷。UV线光能量需约1000-2000 mJ/cm²。



UV HARD COATING / UV光固防护涂层

Developed as protection varnish for e.g. key pads, etc. Suitable for various surface printing and provide high powerful printed surface protection as well as passing almost surface resistance tests. Curing energy should be between 500-1500 mJ/cm².

可被用作保护清漆，如电脑键盘面用漆等。UV光固防护涂层适合多种表面印刷及提供印刷面高防护功能，能通过生产商多种高防护测试方法。UV线光能量在500-1500 mJ/cm²之间。

There are 2 versions available :

两种类型可供选择：

KTP/HC-NT

Glossy / 光面

KTP/HC-MT

Matt / 哑光面



TPW

One of the most popular pad printing inks due to its good printability. Suitable for printing on wood, coated surfaces, various plastics and even metals. Like promotional items (lighters, pens etc.), printing of industrial articles (housings, mobile phones etc.). With hardener resistances and adhesion are improved.

TPW是全球最具广泛使用的油墨之一。具快速干燥和光亮特性，适用于硬质塑料、木材、涂层、各种金属、纸聚胺、聚醛树脂(处理后)，预处理聚乙烯和聚丙烯、聚碳酸酯、聚脂PMMA、聚苯乙烯、聚胺基甲酸酯、硬质PVC以及光盘。色彩具较强的无金属着色性，多应用于礼品项目(打火机、笔等)、家电塑料产品。更可配合硬化剂使用，令油墨耐磨性，附着力提升。



TPA

For printing materials are difficult and resistance values have to be high. In addition to coated surfaces and metals this pad ink is mainly used for duroplastics. Meets resistance demands of the automotive industry.

TPA为快干型油墨，有光泽且不透明。有良好的抗机械性能和抵抗许多有机溶剂、化学品、稀释的成溶液和酸溶液、油和油脂的性能。适用于乙酸纤维素、硬塑料、聚胺、聚缩醛(经过后处理)、经过预处理的聚乙烯和聚丙烯、金属和涂层表面(也适用于双组分系统和粉末涂层表面)。配合硬化剂使用，更令油墨附着力，耐磨性提高，更能配合自动车生产高度工业要求。



TPA/GL

For applications like promotional items with lower demands TPA/GL can be dried at room temperature. For applications with the highest demands we recommend oven curing at 140°C for 20 minutes.

TPA/GL可以风干也可以烘箱固化。具有良好不透明性和半光亮表面。双组分移印油墨有良好的抗机械性能和抵抗许多有机溶剂、化学品、稀释的成溶液和酸溶液、油和油脂的性能。适用于玻璃、硬塑料、陶瓷、金属，包括镀铬和镀镍、镀金或铈涂层表面。添加硬化剂风干后具有极佳的防水性。



TPN

The most quick drying ink with weather resistant. Wide application on all substrate especially for ABS, polystyrene and its copolymers, rigid PVC, PMMA and polycarbonate. Good processing properties, high gloss, good resistance against benzenes/alcohol especially when the ink is processed with hardener TPWH.

TPN是现时取快干油墨，表面硬度强，高耐磨，更能适合大部分物料表面附著。如ABS、聚苯乙烯、硬质PVC、聚脂PMMA及聚碳酸酯。



TPE

Result in a semi gloss finish. For printing onto untreated polypropylene. Due to various degrees of polymerisation as well as contents and fillers the substrate polypropylene shows an undefined printability. Therefore printing tests in production conditions are absolutely necessary.

TPE油墨用作单成分移印油墨，可使表面具有半光泽度。适用于未经处理的聚丙烯。因聚合度、含量及填充物的不同，聚丙烯基材的适印性不确定。因此，进行生产条件下的印刷测试是完全有必要的。



TPPU

Quick drying semi gloss pad printing inks. They are elastic and show considerable forming resistance. For printing onto textiles, rubber, leather, imitation leather and polyurethane.

TPPU油墨是快速干燥、半光亮的移印油墨，有良好的弹性和较强的抗成形特性。适用于纺织品、橡胶、皮革、人造革和聚氨酯。



TPIC

TPIC are oven curing pad printing inks, good resistance to high temperature treatment like I.C. chips material, which show gloss, good opacity and weather resistance. For duroplastics, glass, coated surfaces, metals and polyester. Various special adjustments have been developed for the semi-conductor industry (Ics).

TPIC是一种透过烘箱干固，已拥有独特抗高温特性的油墨，极适合I.C.半导体物料使用，亦适合硬塑料、玻璃、附涂层物料、金属及尼龙物料印刷。



TPRB

For soft touch varnishes, thermoplastic elastomers and the like are very soft and flexible and thus difficult to print. Successfully used for artificial leather, rubber and all kinds of flexible materials for years.

TPRB具有快速干燥以及半光亮特性，油墨有弹性，可以很好地附著于基材上。这系列的色彩具较强的无金属着色性。针对具弹性、软性物料表面，适用于橡胶、皮革、人造皮革、聚先氨和聚氨酯。



AUXILIARY AGENTS / 周边产品

Use of various additives to adjust the pad printing inks to the different environmental conditions and printing requirements.

使用不同的周边产品调校移印油墨来配合不同环境因素及印刷需要。

Solvents (Thinners) / 开油水 (稀释剂)

Solvents (Thinners) are used to adjust ink viscosity.

开油水 (稀释剂) 用作调较油墨浓度。

- TPWA • TPWB • TPWC • TPFA • CA262 • POS/B

Retarders / 慢干水

Retarders are slowly evaporating thinners used for slow printing speeds or printing of fine details (process printing).

慢干水能有效减低稀释剂的挥发来减慢油墨干固速度，适合应用于多色套色印刷工作。

- TPWD • K-VP

Hardeners / 硬化剂

Hardeners react chemically with ink. This reaction is initiated as soon as the hardener is mixed with the ink.

硬化剂用作与油墨混合使用，大大改善印刷附着力。

- TPWH • TPWH1/2 • TPWH/N • TPWH/N-00 • TPWH/GL
- TPWH-02/GL • TPWH-03/GL • TPWH/D

Additives / 添加剂

- Matting Powder

Used to mat the high gloss pad printing effect.

使高光泽的油墨变成哑光面。

- AP-44 + • AP-45

Combination of AP-44 & AP-45. Achieves very good abrasion resistances.

混合AP-44和AP-45添加剂会有良好的耐磨性。

- AP-77

Use of adhesive agent will eliminate the necessity of pre-treatment by flaming or Corona. For PP / PE substrates.

使用黏化剂可免除预先火焰或火花处理的需要。用于PP / PE物料。

