



Sicrys™ Silver Digital Conductive Inks for Solar, Ceramic and Glass

Ink properties	I54DMG4-050	I50TM-119	I50TG4-3
Application	Solar	Solar, Glass	Glass
Metal Loading (% w/w)	50%	50%	50%
Main Solvent ¹	DGME	TGME	TPM
Typical Viscosity @ 25°C (cP)	20	34	19
Surface Tension (dyn/cm) (Pendant Drop method)	34	29	27
Open Time ² (jetting temperature, °C)	3 min (35°C)	10 min (35°C)	10 min (35°C)
Resistivity (μΩcm) (thermal sintering, °C, min)	≤ 3 (~700, 8sec)	≤ 10 (150,30) ≤ 12 (130,30)	≤ 3 (450,15)
Sheet Resistance (mΩ/□) (thickness, μm)		30 (3.5 μm) 15 (8 μm)	20 (1 μm) 4 (5 μm)
Substrate Adhesion ³ (tested) ⁴	Silicon wafer	Kapton®, FR4, PET, PC, ITO, Glass, CTO	Glass
Compatible Printing Technologies	Inkjet	Inkjet	Inkjet
Compatible Printheads ⁴	XAAR-1001 KM1024 KM1024i Ricoh E3	KM1024 KM1024i Ricoh E3	KM1024 KM1024i Ricoh E3
Shelf life: 12 months. Storage at room temperature. No need to stir the inks.			
¹ - Solvents: DGME - diethylene glycol methyl ether, TGME - triethylene glycol methyl ether, TPM - tripropylene glycol methyl ether ² - Ricoh E3 printhead ³ - Adhesion depends on substrate, sintering conditions, substrate pretreatment and pattern thickness (tested according to ASTM-3359-09 or ISO-2409) ⁴ - Substrates and printheads listed here were tested and perform well. Other substrates and compatible printheads may also be applicable			

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