High Adhesive Nano Paste® NPS-L、NPS-L-HB

HARIMA

Due to the stability of the dispersion, our product shows excellent printing features, and it is a suitable material for printed electronics.

Features

● Ensures high adhesion to variety of substrates.
● Metal film can be formed with the wide range of thickness.

Adhesion to substrate of metal film of NPS-L and NPS-L-HB

Substrate	PET	Cu	Ni	Glass	Alumina
Heating condition (under air atmosphere)	120℃×1h	120℃×1h	120℃×1h	400℃×1h	400℃×0.5h
Adhesion※	Class 0	Class 0	Class 0	Class 0	Class 0

※Test method：Cross-cut adhesion test(JIS K 5600) Classification of adherence : (Excellent) 0・1・2・3・4・5 (Poor)

Specifications

● Due to its excellent adhesiveness, our product can form a metal film on various substrates.

Item	NPS-L	NPS-L-HB
Component metal	Ag nano particles	Ag nano + Ag micro particles
Printing method	Ink jet	Screen
Heating condition	120℃×1h	120℃×1h
Formable thickness	0.2〜1μm	5〜50μm
Pencil hardness	H	2H
Volume resistivity	10$\mu\Omega\cdot$cm	10$\mu\Omega\cdot$cm
Viscosity	10mPa・s （Type E　60rpm　20℃)	140Pa （Spiral　60rpm 25℃)
Metal solids content	50wt%	87wt%

The above data are representative values and not standard values.