

Silicone Free Label

There is growing concern about silicone contamination in a cleanroom especially in HD, HDD, FPC & LCD production.

Labels, which is often used in a cleanroom, contain silicone on its liners and may cause silicone contamination.

Our silicone free labels do not contain silicone and the base material & liner are made of clean paper.

1. Composition

Clean paper 64g/m ²	→	Base material
Acrylic adhesive	→	Adhesive
Clean paper 70g/m ²	→	Released Liner

2. Adhesive

Test Article	Unit		Result	Test Method
Adhesion (JIS Z 0237)	CGS unit	g/25mm	500	JIS Z 0237
	SI unit	N/25mm	4.9	JIS Z 0237
*Cohesion	Second		NC 70000	-

***Test Method for cohesion: 0°Dear Load Test at 40°C**

- Sample size: 25mm X 15mm
- Adherend: Stainless steel
- Pasting-up pressure: 2kg of rubber roller is rolled on the sample 5 times of comings & goings.
- Static load: 1kg

3. FT-IR Test

Sample: Staclean Silicone Free Label

No.	Part	Extraction	Result
1.	Base material	Hexane	None
2.	Base material	IPA	None
3.	Base material	Methanole	None
4.	Released liner (Face)	Hexane	None
5.	Released liner (Back)	Hexane	None

*Surface of the sample is extracted by solvents and analyzed by FT-IR. 5ml of solvents washed away the sample in 25 X 100mm and examined if DOP and Silicone is found.

4. ION Chromatography

ION	Limit of Identification(PPM)	Base & Adhesive
F-	0.100	None
CL-	0.050	0.070
Br-	0.015	None
NO ₂ ⁻	0.008	None
NO ₃ ⁻	0.015	None
SO ₄ ²⁻	0.015	0.017
PO ₄ ²⁻	0.030	None
NH ₄ ⁺	0.070	0.014

1g of sample extracted for 60 minites in 80°C water.

The above data are intended to be information about the product and Enviromental safty only, and do not constitute a gurantee or warranty.

As with all materials, results may vary according topractices and conditions.